



KANSAS

RODERICK L. BREMBY, SECRETARY

DEPARTMENT OF HEALTH AND ENVIRONMENT

KATHLEEN SEBELIUS, GOVERNOR

August 8, 2006

Source ID No. 1250003

John Ditmore  
St. Environmental Engineer  
Coffeyville Resources Refining and Marketing, LLC  
400 North Linden Street, Box 1566  
Coffeyville, KS 67337



SUBJECT: Class I Air Emission Source Operating Permit

Dear Mr. Ditmore:

Enclosed is the Class I operating permit and annual certification of compliance form for the National Cooperative Refinery Association located in McPherson, Kansas. The certification is required to be submitted to the Kansas Department of Health and Environment (KDHE) within 30 days of the anniversary of the effective date of the permit, for each year the permit is in effect. Please use copies of the enclosed form for the required certifications, retaining the original blank form for subsequent certifications. This form will not be mailed to you on a yearly basis. For the semi annual reports, please refer to the "Testing, Monitoring, Recordkeeping and Reporting" section of the permit. Submittal of the annual certification does not take place of the semi-annual report.

**Please review the enclosed operating permit carefully since it obligates your company to certain requirements.**

As provided for in K.S.A. 65-3008b(e), an owner or operator may request a hearing within 15 days after affirmation, modification or reversal of a permit decision pursuant to subsection (b) of K.S.A. 65-3008a. In the Request for Hearing, the owner or operator shall specify the provision of this act or rule and regulation allegedly violated, the facts constituting the alleged violation and secretary's intended action. Such request must be submitted to: Director, Office of Administrative Hearings, 1020 S. Kansas Avenue, Topeka, KS 66612-1327. Failure to submit a timely request shall result in a waiver of the right to hearing.

DIVISION OF ENVIRONMENT  
Bureau of Air & Radiation

Air Construction/Operating Permits & Compliance Section

CURTIS STATE OFFICE BUILDING, 1000 SW JACKSON ST., STE 310, TOPEKA, KS 66612-1366

Voice 785-296-1570 Fax 785-291-3953 <http://www.kdhe.state.ks.us>

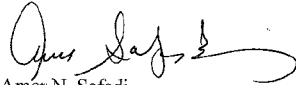
CRRM0000287

Page 2  
Mr. John Ditmore  
August 8, 2006

Include source ID number 1250003 in all communications with the KDHE regarding this facility.

If you have any questions regarding this permit, please contact me at (785) 296-1993.

Sincerely,

A handwritten signature in black ink, appearing to read "Amer N. Safadi", with a stylized flourish at the end.

Amer N. Safadi  
Environmental Engineer  
Bureau of Air and Radiation

ANS:saw  
Enclosures  
c: SEDO  
O-265

CRRM0000288



K A N S A S

RODERICK L. BREMBY, SECRETARY

DEPARTMENT OF HEALTH AND ENVIRONMENT

KATHLEEN SEBELIUS, GOVERNOR

**AIR EMISSION SOURCE  
CLASS I OPERATING PERMIT**

**Source ID No.:** 1250003

**Initial Date:** August 8, 2006

**Expiration Date:** August 7, 2011

**Source Name:** Coffeyville Resources Refining & Marketing, LLC

**SIC Code:** 2911, Petroleum Refining

**NAICS Code:** 324110, Petroleum Refineries

**Source Location:** 400 North Linden Street  
Coffeyville, Montgomery County, Kansas 67337

**Mailing Address:** P.O. Box 1566  
Coffeyville, Kansas 67337

DIVISION OF ENVIRONMENT  
Bureau of Air & Radiation  
Air Construction/Operating Permits & Compliance Section  
CURTIS STATE OFFICE BUILDING, 1000 SW JACKSON ST., STE 310, TOPEKA, KS 66612-1366  
Voice 785-296-1570 Fax 785-291-3953 <http://www.kdhe.state.ks.us>

CRRM0000289

#### **Authority**

This permit, developed in accordance with the provisions of K.A.R. 28-19-500 et seq., "Operating Permit," meets the requirements of K.A.R. 28-19-510 et seq., Class I Operating Permits and Title V of the federal Clean Air Act.

#### **Permit Intent**

The purpose of this Class I Air Operating Permit is to identify the emission sources, types of regulated air pollutants emitted from the facility, the emission limitations, standards and requirements applicable to each emission source, and the monitoring, record keeping and reporting requirements applicable to each source as of the effective date of this permit. At the time of permit issuance, a Class I Air Emission Source Operating Permit was required because the facility had the potential-to-emit over 100 tons per year each of oxides of nitrogen (NO<sub>x</sub>), sulfur dioxide (SO<sub>2</sub>), carbon monoxide (CO), volatile organic compounds (VOC), particulate matter with an aerodynamic diameter less than or equal to 10 microns (PM<sub>10</sub>), over 10 tons per year of any one individual hazardous air pollutants (HAPs), and over 25 tons per year of combined HAPs.



## TABLE OF CONTENTS

<b>Section</b>	<b>Page No.</b>
Facility Description	4
Emission Source Information	4
Summary of Applicable Requirements	5
Applicable Requirements:	5
Opacity Summary	5
Facility Wide Applicable Requirements	9
Opacity Limitations and Monitoring	11
Requirements Which Will Become Applicable During the Permit Term	12
Permit Shield	13
Testing, Monitoring, Recordkeeping, and Reporting	13
Reporting of Deviations from Permit Terms	14
General Provisions	14
1. K A R 28-19-11, Exceptions Due to Breakdowns or Scheduled Maintenance	14
2. K A R 28-19-752a, Hazardous Air Pollutants; Limitations Applicable to Construction of New Major Sources or Reconstruction of Existing Major Sources	15
3. Permit Term and Renewal	15
4. Severability	15
5. Property Rights	15
6. Compliance	15
7. Compliance Certification	16
8. Emergency	16
9. Inspection and Entry	17
10. Permit Amendment, Modification, Recopening, and Changes Not Requiring a Permit Action	18
11. Duty to Provide Information	18
12. Duty to Supplement	19
13. Other Permits and Approvals; Applicability	19
14. Submissions	19
Attachment A: Site Diagram	
Attachment B: List of Acronyms and Symbols	
Attachment C: Emission Source Information	
Attachment D: Applicable Requirements	
Attachment E: NSPS QQQ Agreement Letter	
Attachment F: Consent Decree	
Attachment G: Non-Material Modifications of CRRM Consent Decree	
Attachment H: Consent Decree Compliance Plan	

**Facility Description:**

The Facility is a petroleum refinery owned and operated by Coffeyville Resources Refining & Marketing, LLC (CRRM). The refinery is located at 400 North Linden Street in Coffeyville, Montgomery County, Kansas. The facility also includes three crude storage tanks located in the Coffeyville Station that is located North and East of Coffeyville near the intersection of Highways 166 and 169.

The Coffeyville refinery receives crude oil from the Coffeyville Station via pipeline and processes the crude oil into a number of intermediate hydrocarbons and finished products to include motor vehicle fuels. Additionally, intermediate refining feedstocks and additives, to include reduced crude oil, gas oil, alkylate and naphtha can be brought to the site by pipeline, railcars and trucking operations to augment and replace feedstocks produced in the refinery. Crude oil is processed into groups or "fractions" whose molecular structure may be changed or rearranged to form new hydrocarbon compounds with desired characteristics. To form these intermediate and finished products, the refinery uses processes that include distillation, cracking, reforming, isomerization, alkylation, hydrotreating and coking. The refinery produces various grades of gasoline, fuel oils, and other fuels, along with petroleum coke, and commercial grade sulfur. The finished refined product is stored on-site and is transported off-site through a pipeline system, railcars, and trucking operations. The refinery's other products include marketable intermediate feedstocks, and petroleum coke and asphalt are stored on site and can be transported off-site through railcars and trucking operations. Other activities at the refinery include site remediation and maintenance operations.

The facility has many insignificant activities at the site, which include vacuum-heaters, reboilers, ethanol tanks, emergency generators, caustic tanks, methanol tanks, and several others types of heaters and tanks.

**Emission Source Information:**

A list of emission sources including emission source IDs, emission source descriptions, Stack/Vent I.D.s, and Control Equipment ID Numbers is included in attachment C.

### Summary of Applicable Requirements

K A R 28-19-20, Particulate Matter Emission Limitations .....	9
K A R 28-19-30 through K A R. 28-19-32. Emission Limitations (Indirect Heating Equipment): .....	9
K A R 28-19-55 through K A R. 28-19-58. Emergency Episode Plans .....	10
K A R 28-19-202. Annual Fee Payment .....	10
K A R 28-19-210, Calculation of Actual Emissions .....	10
K A R 28-19-517, Annual Emissions Inventory .....	10
K A R 28-19-645, Open Burning .....	10
K A R 28-19-735, Adopted by Reference 40 CFR Part 61, Subpart A & Subpart M .....	10
40 CFR Part 68, Chemical Accident Prevention Provisions .....	11
40 CFR Part 82, Protection of Stratospheric Ozone .....	11
K A R 28-19-650 .....	Att D
K A R 28-19-720, Adopted by Reference 40 CFR Part 60, Subpart A .....	Att D
K A R 28-19-720, Adopted by Reference 40 CFR Part 60, Subpart D .....	Att D
K A R 28-19-720, Adopted by Reference 40 CFR Part 60, Subpart Db .....	Att D
K A R 28-19-720, Adopted by Reference 40 CFR Part 60, Subpart J .....	Att D
K A R 28-19-720, Adopted by Reference 40 CFR Part 60, Subpart Kb .....	Att D
K A R 28-19-720, Adopted by Reference 40 CFR Part 60, Subpart GGG .....	Att D
K A R 28-19-720, Adopted by Reference 40 CFR Part 60, Subpart QQQ .....	Att D
K A R 28-19-735, Adopted by Reference 40 CFR Part 61, Subpart A & Subpart FF .....	Att D
K A R 28-19-750, Adopted by Reference 40 CFR Part 63, Subpart A .....	Att D
K A R 28-19-750, Adopted by Reference 40 CFR Part 63, Subpart CC .....	Att D
K A R 28-19-750, Adopted by Reference 40 CFR Part 63, Subpart UUU .....	Att D
K A R 28-19-750, Adopted by Reference 40 CFR Part 63, Subpart DDDDD .....	Att D

### Applicable Requirements:

The applicable requirements for the emission sources associated with the Coffeyville refinery are included in Appendix D

### Opacity Summary

All emission units other than those listed below are limited to 20% opacity.

Stack / Vent ID No.	Emission Source ID No.	Emission Source Opacity Requirement
SV005	EU-15-001	40%
SV039	EU-15-FH0024	40%
SV018	IA-04-FH0008	40%
SV027	IA-11-FH0018	40%
SV028	IA-11-FH0019	40%

Stack / Vent ID No	Emission Source ID No.	Emission Source Opacity Requirement
SV030	IA-13-FH0004	40%
SV033	IA-15-FH0023	40%
SV035	IA-16-FH0026	40%
SV008	EU-10-FH0015	40%
SV034	IA-15-FH0025	40%
SV040	IA-PUMP1	40%
NA	IA-TK0005	40%
NA	TK-0242	40%
NA	TK-0270	40%
NA	TK-0340	40%
NA	TK-0341	40%
NA	IA-TK0350	40%
NA	TK-0424	40%
NA	TK-0426	40%
NA	IA-TK0442	40%
NA	IA-TK0443	40%
NA	TK-0482	40%
NA	TK-0487	40%
NA	TK-0488	40%
NA	TK-0503	40%
NA	TK-0504	40%
NA	TK-0505	40%
NA	TK-0506	40%
NA	IA-TK0517	40%
NA	IA-TK0518	40%
NA	IA-TK0523	40%
NA	IA-TK0524	40%
NA	TK-0551	40%

Stack / Vent ID No.	Emission Source ID No.	Emission Source Opacity Requirement
NA	TK-0553	40%
NA	TK-1006	40%
NA	TK-1007	40%
NA	TK-1011	40%
NA	TK-1013	40%
NA	TK-1203	40%
NA	TK-1206	40%
NA	TK-1207	40%
NA	TK-1208	40%
NA	TK-1502	40%
NA	TK-2501	40%
NA	TK-2502	40%
NA	TK-2503	40%
NA	TK-2504	40%
NA	TK-2509	40%
NA	TK-2510	40%
NA	TK-3003	40%
NA	TK-5503	40%
NA	TK-5504	40%
NA	TK-5505	40%
NA	TK-6701	40%
NA	TK-8001	40%
NA	TK-8002	40%
NA	TK-8003	40%
NA	TK-8004	40%
NA	TK-8005	40%
NA	TK-8007	40%
NA	TK-8009	40%

Stack / Vent ID No.	Emission Source ID No.	Emission Source Opacity Requirement
NA	TK-8010	40%
NA	TK-8011	40%
NA	IA-TKADD84	40%
NA	IA-TKADD85	40%
NA	IA-TKADD86	40%
NA	IA-TKADD87	40%
NA	IA-00-100	40%
SV011	EU-00-004	40%
SV003	EU-03-001	40%
NA	EU-03-100	40%
NA	EU-04-100	40%
SV046	EU-09-001	40%
SV047	EU-09-002	40%
SV004	EU-10-003	40%
SV048	EU-10-005	40%
SV049	EU-10-006	40%
SV050	EU-10-007	40%
SV051	EU-10-008	40%
SV013	EU-10-009	40%
NA	EU-10-100	40%
SV001	EU-12-001	40%
SV052	EU-12-002	40%
SV053	EU-12-003	40%
SV054	EU-12-004	40%
SV002	EU-13-001	40%
SV005	EU-15-001	40%
SV055	EU-16-001	40%
SV056	EU-16-002	40%

Stack / Vent ID No.	Emission Source ID No.	Emission Source Opacity Requirement
SV057	EU-16-003	40%
NA	FS-04-001	40%
NA	FS-11-001	40%
NA	EU-CT1	40%
NA	EU-CI10	40%
NA	EU-CT11	40%
NA	EU-CI12	40%
NA	EU-CT3	40%
NA	EU-CI5	40%
NA	EU-CI5A	40%
NA	EU-CI9	40%

#### **Facility Wide Applicable Requirements**

The permittee shall comply with the following when required by the relevant regulation:

#### **K.A.R. 28-19-20 Particulate Matter Emission Limitations:**

The permittee shall comply with the requirements of K.A.R. 28-19-20. This regulation applies to handling and processing equipment for dry bulk materials, excluding indirect heating equipment and incinerators.

#### **K.A.R. 28-19-30 through K.A.R. 28-19-32. Emission Limitations (Indirect Heating Equipment):**

Except as provided in K.A.R. 28-19-32, aggregated emissions of particulate matter from indirect heating equipment shall not exceed those specified in table H-1 of K.A.R. 28-19-31(a) or for equipment having intermediate heat input between  $10(10^6)$  BTU/hr and  $10,000(10^6)$  BTU/hr the allowable emission rate may be determined by the equation provided at K.A.R. 28-19-31(a)

Records shall be maintained of any recalculations and evaluations. These records shall include the design rate capacity of the unit, emission factors used in calculations and potential/ allowable emission rates

K.A.R. 28-19-55 through K.A.R. 28-19-58. Emergency Episode Plans:

The permittee shall comply with the requirements of K A R 28-19-55 through 28-19-58, Emergency Episode Plans, and shall maintain on site an emergency episode plan if KDHE requires an emergency episode plan be developed pursuant to K A R. 28-19-58.

K.A.R. 28-19-202. Annual Fee Payment:

The owner or operator of a permitted emissions unit or stationary source is required to pay fees to the permitting authority consistent with the fee schedule set out in the regulations pursuant to K A R. 28-19-202.

K.A.R. 28-19-210, Calculation of Actual Emissions

The following applies to emission control equipment not otherwise addressed in this permit:

If the owner or operator uses air emission control equipment, not otherwise addressed in this permit, to calculate actual emissions, the air emission control equipment shall be maintained in accordance with the manufacturer's recommendation. The owner or operator shall keep a written log recording the date and type of action taken when performing preventive or other maintenance on the air emission control equipment.

K.A.R. 28-19-517, Annual Emissions Inventory

The owner or operator shall submit all operating or relevant information to estimate emissions for the preceding year to the KDHE. This information shall be submitted before June 1 of each year and shall be submitted on forms provided or approved by the KDHE.

K.A.R. 28-19-645, Open Burning

The permittee is prohibited from conducting open burning, except as allowed by K A R. 28-19-647 and K.A.R. 28-19-648.

K.A.R. 28-19-735 Adopted by Reference 40 CFR Part 61, Subpart A & Subpart M

The permittee shall comply with the National Emission Standard for Hazardous Air Pollutants (NESHAP) 40 CFR Part 61, Subpart A, General Provisions and Subpart M, National Emission Standard for Asbestos, adopted by K.A.R. 28-19-735 and K A R. 28-50-1 et seq , when conducting any renovation or demolition activities at the facility.



#### 40 CFR Part 68, Chemical Accident Prevention Provisions

Chemical Accident Prevention Provisions, 40 CFR Part 68, is applicable to an owner or operator of a stationary source that has more than a threshold quantity of a regulated substance in a process, as determined in 40 CFR 68.115.

If the stationary source is subject to 40 CFR Part 68, but is not required to comply with those requirements as of the effective date of this operating permit, the stationary source shall be in compliance with the requirements of 40 CFR Part 68 no later than the latest of the following dates:

- a. Three years after the date on which a regulated substance is first listed in 40 CFR 68.130; or
- b. The date on which a regulated substance is first present above a threshold quantity in a process.

#### 40 CFR Part 82, Protection of Stratospheric Ozone

The permittee shall comply with 40 CFR Part 82, Protection of Stratospheric Ozone. Affected controlled substances include, but are not limited to, chlorofluorocarbons, hydrochlorofluorocarbon refrigerants, halons, carbon tetrachloride, and methyl chloroform (specific affected controlled substances are listed in 40 CFR Part 82, Subpart A, appendices A {Class I} and B {Class II}).

The following subparts and sections of 40 CFR Part 82 are conditions of this permit:

Subpart A - Production and Consumption Controls

Subpart B - Servicing of Motor Vehicle Air Conditioners

Subpart E - Labeling of Products Using Ozone-Depleting Substances: Section; 82.106 Warning statement requirements, 82.108 Placement of warning statement, 82.110 Form of label bearing warning statement, and 82.112 Removal of label bearing warning statement

Subpart F - Recycling and Emissions Reduction: Sections; 82.156 required practices, 82.158 Standards for recycling and recovery equipment, 82.161 Technician certification, and 82.166 Reporting and recordkeeping requirements

Subpart G - Significant New Alternatives Policy Program

#### Opacity Limitations and Monitoring

Except as otherwise provided in K.A.R. 28-19-9, K.A.R. 28-19-11, K.A.R. 28-19-650 (c) or as otherwise identified in the applicable requirements portion of this permit, K.A.R. 28-19-650(a)(3) limits visible air emissions from each emission unit to 20%. K.A.R. 28-19-31 (b)(2) limits air emissions from any indirect heating equipment to less than 20%.

Exceptions to routine periodic monitoring. Except as otherwise provided in the applicable requirements portion of this permit, emissions from the following or similar activities do not require routine periodic monitoring: emissions vented inside an enclosed building or structure, from cooling towers and from evaporative VOC sources; when burning natural gas, propane/LPG, or refinery gas, emissions from turbines, reciprocating internal combustion engines, burners in indirect heating applications and space heaters.

Routine periodic monitoring requirements. Except as otherwise provided in the applicable requirements portion of this permit or as provided above, the owner or operator shall perform a qualitative assessment at least once per calendar month, with at least one week between assessments. The monthly qualitative assessment shall include each activity at the facility, which is operating at the time scheduled. For each activity from which the opacity of visible emissions appears to exceed the limit, the permittee shall take appropriate action to correct process operating parameters, after which the permittee shall perform an additional qualitative assessment for that unit. If, at the end of ten operating days from the date of the possible exceedance, opacity of visible emissions appear to continue to exceed the limit, the owner or operator shall notify the agency, within 7 days of the end of the ten operating day period, and shall schedule a test utilizing EPA Method 9, of visible emissions from the unit appearing to exceed the limit, within 30 days of the end of the ten operating day period.

The person responsible for making qualitative opacity assessments shall be knowledgeable about the effects on visibility of emissions caused by background contrast, ambient lighting, observer position relative to lighting and wind, and the presence of uncombined water in the plume.<sup>1</sup> The permittee shall keep records of each qualitative assessment, which shall include the time and date of the assessment, a description of the emission point from which any unusual emissions emanated, the steps taken to correct any abnormal emissions, and the name of the person conducting the assessment.

BAR does not consider a qualitative assessment in which emissions appear to exceed the applicable opacity limits to be a violation or deviation subject to reporting in accordance with the Reporting of Deviations from Permit Terms portion of this permit. A method 9 evaluation that shows opacity exceeding the emission limit would be subject to reporting in accordance with the Reporting of Deviation from Permit Terms section of this permit.

#### **Requirements Which Will Become Applicable During the Permit Term**

The owner or operator, in accordance with the provisions of K.A.R. 28-19-511(b)(16)(C)(ii) and K.A.R. 28-19-512(a)(23) shall comply in a timely manner with those applicable requirements that become effective during the permit term, unless a detailed schedule is expressly required by the applicable requirements.

<sup>1</sup>For basic information about opacity observations, refer to 40 CFR Part 60 Appendix A Method 9.

### **Permit Shield**

Compliance with the conditions of this permit shall be deemed in compliance with the applicable requirements of the Kansas air quality program as of the date of permit issuance. This shield applies only to:

- a. applicable requirements included, and specifically identified in the permit;
- b. applicable requirements that the KDHE has specifically identified in writing as not being applicable to the emissions unit or stationary sources and the determination or a concise summary thereof is included in the permit.

Nothing in this permit shall alter or affect:

- a. the liability of a permittee for any violation of an applicable requirement occurring prior to or at the time of issuance of this permit;
- b. U.S. EPA's ability to obtain information under Section 114 of the Clean Air Act; or
- c. the provisions of Section 303, Emergency orders, of the Clean Air Act, including the authority of the administrator of the U.S. EPA under that section of the air pollution emergency provisions of the Kansas air quality program regulations, K.A.R. 28-19-55 through 28-19-58
- d. the applicable requirements of the acid rain program, consistent with section 408(a) of the Act

### **Testing, Monitoring, Recordkeeping, and Reporting**

Testing, monitoring, recordkeeping, and reporting requirements sufficient to assure compliance with the terms and conditions of the permit are required.

In addition to any testing, monitoring, recordkeeping, or reporting requirement contained in the "Applicable Requirements" section of this permit, monitoring and reporting may be required under the provisions of K.A.R. 28-19-12, "Measurement of emissions," or as required by any other provision of the federal Clean Air Act.

Records to support all monitoring and copies of all reports required by the permit must be maintained for a period of at least five years from the date of the activity. Summary reports of any routine, continuous or periodic monitoring must continue to be submitted at six-month intervals, 30 days after each subsequent six month period for the duration of the permit. All instances of deviations from permit requirements, including perceived opacity exceedances, shall be clearly identified in the report.

Submission of quarterly or semi-annual reports required by any applicable requirement which are duplicative of the reporting required in the previous paragraph will satisfy the reporting requirements of the previous paragraph if noted on the submitted report.

Records of required monitoring shall include:

- a. the date, place, and time of sampling or measurement;
- b. the date or dates analyses were performed;
- c. the company or entity which performed the analyses;
- d. the analytical techniques or methods used;
- e. the result of the analyses; and
- f. the operating conditions that existed at the time of sampling or measurement.

#### **Reporting of Deviations from Permit Terms**

Unless a different time period is specified in this permit, deviations from the requirements of this permit shall be reported to the KDHE as follows:

- a. Deviations which result in emissions exceeding those allowed in this permit shall be reported the next business day following the discovery of the release, with follow-up written notice within five business days following discovery of the release. The report shall include the probable cause of such deviations, and any corrective actions or preventive measures taken.
- b. Deviations which do not result in emissions exceeding those allowed in this permit shall be reported in writing within 10 business days following discovery of the deviation. Oral notifications may be made to the air program field staff at the Southeast District Office in Chanute or to the KDHE central office in Topeka. Written notifications shall be made to the KDHE central office with a copy to the Southeast District Office.

#### **General Provisions**

- 1. K.A.R. 28-19-11, Exceptions Due to Breakdowns or Scheduled Maintenance
  - (a) Abnormal operating conditions resulting from malfunction breakdown, or necessary repairs to control or processing equipment and appurtenances which cause emissions in excess of the limitations specified at K.A.R. 28-19-20, K.A.R. 28-19-23, K.A.R. 28-19-30 through K.A.R. 28-19-32, and K.A.R. 28-19-650 shall not be deemed violations provided that:
    - i) The person responsible for the operation of the emission source notifies the department of the occurrence and nature of such malfunctions, breakdown, or repairs, in writing, within 10 days of noted occurrence.

ii) The number of occurrences of such breakdowns is not deemed excessive by the department and appropriate reasonable action is taken to initiate and complete any necessary repairs and place the equipment back in operation as quickly as possible.

(b) Emissions in excess of the limitations specified at K.A.R. 28-19-20, K.A.R. 28-19-23, K.A.R. 28-19-30 through K.A.R. 28-19-32, and K.A.R. 28-19-650 resulting from scheduled maintenance of control equipment and appurtenances will be permitted only on the basis of prior approval by the department and upon demonstration that such maintenance cannot be accomplished by maximum reasonable effort, including off-shift labor where required, during periods of shutdown of any related equipment.

2. K.A.R. 28-19-752a, Hazardous Air Pollutants; Limitations Applicable to Construction of New Major Sources or Reconstruction of Existing Major Sources

This regulation shall continue in effect for an emissions unit or stationary source until a standard has been promulgated which is applicable to such source pursuant to section 112(d) of the federal Clean Air Act.

This regulation shall apply whenever construction of a new major source or reconstruction of an existing major source of hazardous air pollutants is proposed.

3. Permit Term and Renewal

This permit has a term of five years unless otherwise stated in this permit. A complete application, as defined in K.A.R. 28-19-518, and any applicable fee, must be submitted to the KDHE not less than six months and not more than 18 months prior to the expiration date. This operating permit shall not expire on the expiration date if a complete and timely application has been filed with the KDHE.

4. Severability

The provisions of this permit are severable, and if any portion of this permit, or the application of any provision of this permit to any circumstance, is held invalid, the application of such provision to other circumstance, and the remainder of this permit, shall not be affected thereby.

5. Property Rights

This permit does not convey any property rights of any sort or any exclusive privilege.

6. Compliance

The owner or operator shall comply with all conditions of the permit and shall continue to comply with applicable requirements with which the owner or operator is in compliance. Any permit noncompliance shall constitute a violation.

of the Kansas Air Quality Act and shall be grounds for enforcement action, for permit revocation or amendment, or for denial of a permit renewal application. All permit terms and conditions are federally enforceable.

It shall not be a defense for a permittee in an enforcement action to contend that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of the permit.

This permit may contain provisions which require that specific test methods, monitoring, or record keeping be used as a demonstration of compliance with permit limits. On February 24, 1997, the U.S. EPA promulgated revisions to the following federal regulations: 40 CFR Part 51.212; 40 CFR Part 52, Sec 52.12; 40 CFR Part 52, Sec 52.30; 40 CFR Part 60, Sec 60.11 and 40 CFR Part 61, Sec 61.12, that allow the use of credible evidence to establish compliance with applicable requirements. At the issuance of this permit, the State of Kansas has incorporated these provisions in its air quality regulations K.A.R. 28-19-212 (d), K.A.R. 28-19-350, K.A.R. 28-19-720 and K.A.R. 28-19-735.

7. Compliance Certification

The permittee shall annually submit to the Air Operating Permit and Compliance Section of the KDHE, and a copy to the Air Permitting and Compliance Branch of the U.S. EPA, Region 7, a certification of compliance (Form CR-02, "Annual Certification"). **The due date of the certification is September 7 of each year, beginning September 7, 2007 for the period August 8, 2006 through August 7, 2007.**

The certification shall include the permit term or condition that is the basis of the certification; the current compliance status; whether compliance was continuous or intermittent; the method or methods used for determining the compliance, currently and over the reporting period; and such other facts as the KDHE may require to determine the compliance status of the source. The certification shall state that, based on information and belief formed after reasonable inquiry, the statements and information in the certification are true, accurate, and complete.

8. Emergency

- (a) An "emergency" means any situation arising from sudden and reasonably unforeseeable events beyond the control of the source, including acts of God, which situation requires immediate corrective action to restore normal operation, and that causes the source to exceed a technology-based emission limitation under this permit, due to unavoidable increases in emissions attributable to the emergency. An emergency shall not include noncompliance to the extent caused by improperly designed equipment, lack of preventative maintenance, improper operation, or operator error.

- (b) An emergency shall constitute an affirmative defense to an action brought for noncompliance with such technology-based emission limitation if the conditions of paragraph (c) below are met.
- (c) The affirmative defense of emergency shall be demonstrated through properly signed, contemporaneous operating logs or relevant evidence that:
  - i) an emergency occurred and that the permittee can identify the cause or causes of the emergency;
  - ii) the permitted facility was at the time being properly operated;
  - iii) during the period of the emergency the permittee took all reasonable steps to minimize levels of emissions that exceeded the emission standards or other requirements in the permit; and
  - iv) the permittee submitted notice of the emergency, containing a description of the emergency, any steps taken to mitigate emissions, and corrective actions taken, to the KDHE within two working days of the time when emission limitations were exceeded due to the emergency.
- (d) In any enforcement proceeding, the permittee seeking to establish the occurrence of an emergency shall have the burden of proof.
- (e) These emergency provisions are in addition to any emergency or upset provisions contained in any applicable requirement. Whenever these emergency provisions conflict with the provisions of K.A.R. 28-19-11, these emergency provisions shall control.

9. Inspection and Entry

Upon presentation of credentials and other documents as may be required by law, representatives of the KDHE, including authorized contractors of the KDHE, shall be allowed by the permittee to:

- (a) enter upon the premises where a regulated facility or activity is located or conducted and where records are kept under conditions of this document;
- (b) have access to and copies of, at reasonable times, any records that must be kept under conditions of this document;
- (c) inspect at reasonable times, any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this document; and

- (d) as authorized by the Kansas Air Quality Act, sample or monitor at reasonable times substances or parameters for the purpose of assuring compliance with the permit or applicable requirements.

10. Permit Amendment, Modification, Reopening, and Changes Not Requiring a Permit Action

- (a) The permit may be modified, revoked, reopened, reissued, or terminated for cause. The filing of a request by the permittee for a permit modification, revocation, re-issuance, or termination, or of a notification of planned changes or anticipated noncompliance does not stay any permit condition.
- (b) The permitting authority will reopen and revise or revoke this permit as necessary to remedy deficiencies in the following circumstances:
  - i) Additional requirements under the Clean Air Act become applicable to the source three or more years prior to the expiration date of this permit. Such a reopening shall be completed no later than 18 months after promulgation of the applicable requirement. No such reopening is required if the effective date of the requirement is later than the expiration date of this permit.
  - ii) The KDHE determines that this permit contains a material mistake or that inaccurate statements were made in establishing the emissions standards or other terms or conditions of this permit
  - iii) The KDHE determines that it is necessary to revise or revoke this permit in order to assure compliance with applicable requirements
- (c) This document is subject to periodic review and amending as deemed necessary to fulfill the intent and purpose of the Kansas Air Quality Statutes and the Kansas Air Quality Regulations.
- (d) No permit revision shall be required under any approved economic incentives, pollution prevention incentives, marketable permits, emissions trading, and other similar programs or processes for changes that are provided for in the permit

11. Duty to Provide Information

Unless a different time frame is specified in this permit, the permittee shall furnish to the KDHE any information that the KDHE may request in writing within 60 days of the request, unless the KDHE specifies another time period. Submittal of confidential business information must be in accordance with KDHE procedures.



12. Duty to Supplement

The permittee, upon becoming aware that any relevant facts were omitted or incorrect information was submitted in any submittal, shall promptly submit such supplementary facts or corrected information.

13. Other Permits and Approvals: Applicability

- (a) A construction permit or approval must be obtained from the KDHE prior to commencing any construction or modification of equipment or processes which results in potential emission increases equal to or greater than the thresholds specified at K.A.R. 28-19-300.
- (b) This document does not relieve the permittee of the obligation to obtain other approvals, permits, licenses, or documents of sanction which may be required by other federal, state, or local government agencies

14. Submissions

All reports, notifications, information, and other correspondence (including submission of the Annual Certification Form CR-02) shall be submitted to:

Air Permitting Section  
Bureau of Air and Radiation  
Kansas Department of Health and Environment  
1000 SW Jackson, Suite 310  
Topeka, KS 66612-1366  
(785) 296-1570

A copy of each Annual Certification Form CR-02 shall be submitted to:

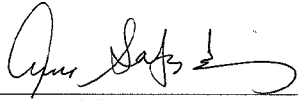
Kansas Compliance Officer  
Air Permitting and Compliance Branch  
U.S. EPA, Region VII  
901 North 5th Street  
Kansas City, KS 66101

The annual certification shall be certified by a responsible official. This certification shall state that, based on the information and belief formed after reasonable inquiry, the statements and information in the certification are true, accurate, and complete. This certification shall be submitted with original signatures

When specified in the permit, contact the district office at:

Southeast District Office  
1500 W. 7<sup>th</sup> Street  
Chanute, KS 66720-9701  
(620) 431-2390

**Permit Engineer**



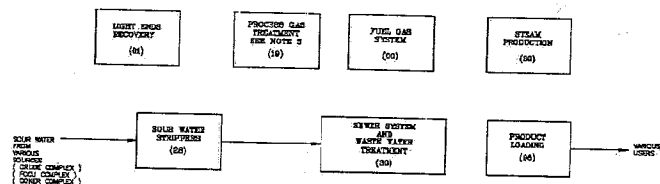
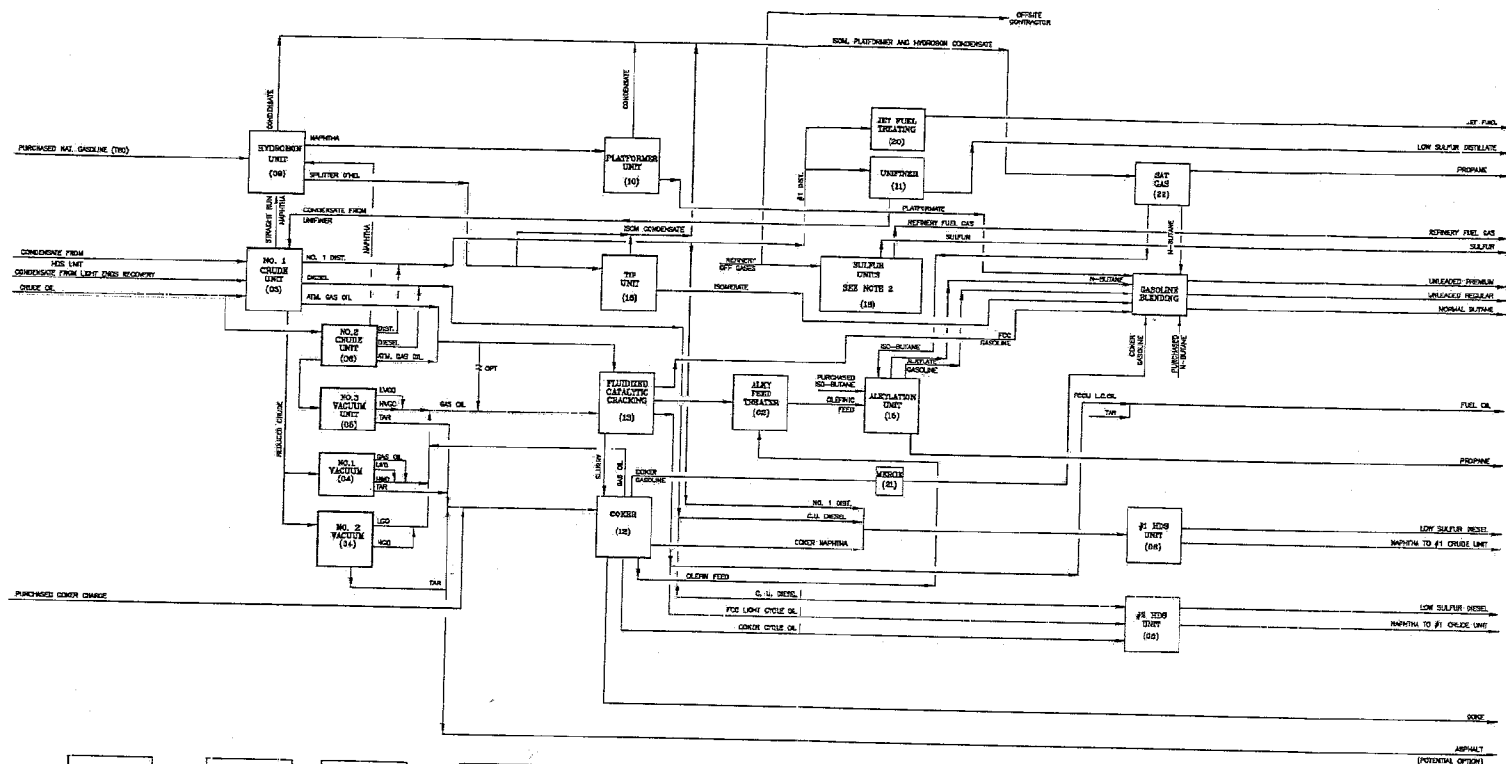
Amer N. Safadi  
Air Permitting Section  
Bureau of Air and Radiation

8/8/06  
Date Signed

ANS:saw  
c: SEDO  
O-265

**Attachment A**

**Site Diagram**



- NOTES
1. NUMBERS IN PARENTHESIS ( ) IDENTIFY THE UNIQUE NUMBER ASSIGNED TO EACH PROCESS UNIT.
  2. INCLUDED IN THE SULFUR UNITS IS #1 SULFUR RECOVERY UNIT (SRU), #2 SRU, #3 SRU, #1 TAIL GAS UNIT (TGU), AND #2 TGU.
  3. INCLUDED IN THE PROCESS GAS TREATMENT UNIT FUGITIVES IS THE #1 AMINE, #2 AMINE, AND GLYCOL UNITS.

<b>SAGE</b> ENVIRONMENTAL CONSULTING OCTOBER, 2005	REFINERY BLOCK DIAGRAM
	COFFEYVILLE RESOURCES REFINING & MARKETING, LLC COFFEYVILLE, KANSAS

**Attachment B**

**LIST OF ACRONYMS and SYMBOLS**

<u>ACRONYM or SYMBOL</u>	<u>DESCRIPTION</u>
<	less than
>	greater than
Acfm	actual cubic feet per minute
AP-42	U.S. EPA publication of emission factors
BACT	Best Available Control Technology
BAR	Bureau of Air and Radiation
Btu	British thermal unit
CAA	Federal Clean Air Act
CAAA	Clean Air Act Amendments of 1990
CAS	Chemical Abstract Service
CDE	Control Device Efficiency
CEM	Continuous Emission Monitor
CFC	Chlorofluorocarbon
Cfm	cubic feet per minute
CFR	Code of Federal Regulations
CMS	Continuous Monitoring System
CO	Carbon Monoxide
COM	Continuous Opacity Monitor
CTG	Control Techniques Guideline
Dscf	dry standard cubic feet
Dscm	dry standard cubic meters
EG	Emission Guideline
EPA	Environmental Protection Agency
EU	Emission Unit
FGR	Flue Gas Recirculation
G	Gram
GOP	General Operating Permit
Gph	gallons per hour
Gpm	gallons per minute
Gr	Grains
HAP	Hazardous Air Pollutant
HC	Hydrocarbon
Hp	Horsepower
KDHE	Kansas Department of Health and Environment
HON	Hazardous Organic NESHAP
IA	Insignificant Activity
JCED	Johnson County Environmental Department
K.A.R.	Kansas Administrative Regulation
K.S.A.	Kansas Statutes Annotated
kW	Kilowatt
LAER	Lowest Achievable Emission Rate

<b><u>ACRONYM or SYMBOL</u></b>	<b><u>DESCRIPTION</u></b>
MACT	Maximum Achievable Control Technology
MBtu	Thousand Btu
Mg	Megagrams
MMBtu	Million Btu
MON	Miscellaneous Organic NESHAP
MSDS	Material Safety Data Sheet
MWC	Municipal Waste Combustor
MWI	Medical Waste Incinerator
NAAQS	National Ambient Air Quality Standards
NCDO	North Central District Office
NEDO	Northeast District Office
NESHAP	National Emission Standards for Hazardous Air Pollutants
NMOC	Non-Methane Organic Compound
NOX	Nitrogen Oxides
NSPS	New Source Performance Standard
NSR	New Source Review
NWDO	Northwest District Office
OAQPS	Office of Air Quality Planning and Standards
P2	Pollution Prevention
PAL	Plant wide Applicability Limitation
PM	Particulate Matter
PM10	PM with an aerodynamic diameter of less than or equal to 10 microns
PM2.5	PM with an aerodynamic diameter of less than or equal to 2.5 microns
PCD	Pollution Control Device
Ppmv	parts per million, volumetric basis
Ppmw	parts per million, weight basis
PSD	Prevention of Significant Deterioration
Psia	pounds per square inch, absolute
Psig	pounds per square inch, gage
PTE	Potential to Emit
QA/QC plan	Quality Assurance/Quality Control plan
RACT	Reasonable Available Control Technology
RMP	Risk Management Plan
SCDO	South Central District Office
SCHA	Shawnee County Health Agency
SEDO	Southeast District Office
SIC	Standard Industrial Classification
SIP	State Implementation Plan
Sox	Oxides of Sulfur
SOCMI	Synthetic Organic Chemical Manufacturing Industry
STP	Standard Temperature and Pressure
SWDO	Southwest District Office
TOC	Total Organic Carbon

<u>ACRONYM or SYMBOL</u>	<u>DESCRIPTION</u>
Tph	tons per hour
Ipy	tons per year
TRS	Total Reduced Sulfur
TSP	Total Suspended Particulate
VOC	Volatile Organic Compound
VOL	Volatile Organic Liquid
WCHD	Wyandotte County Health Department
WSCDCH	Wichita-Sedgwick County Department of Community Health

**Attachment C**  
**Emission Source Information**

1  
2  
3  
4  
5  
6  
7  
8  
9  
10  
11  
12  
13  
14  
15  
16  
17  
18  
19  
20  
21  
22  
23  
24  
25  
26  
27  
28  
29  
30  
31  
32  
33  
34  
35  
36  
37  
38  
39  
40  
41  
42  
43  
44  
45  
46  
47  
48  
49  
50  
51  
52  
53  
54  
55  
56  
57  
58  
59  
60  
61  
62  
63  
64  
65  
66  
67  
68  
69  
70  
71  
72  
73  
74  
75  
76  
77  
78  
79  
80  
81  
82  
83  
84  
85  
86  
87  
88  
89  
90  
91  
92  
93  
94  
95  
96  
97  
98  
99  
100  
101  
102  
103  
104  
105  
106  
107  
108  
109  
110  
111  
112  
113  
114  
115  
116  
117  
118  
119  
120  
121  
122  
123  
124  
125  
126  
127  
128  
129  
130  
131  
132  
133  
134  
135  
136  
137  
138  
139  
140  
141  
142  
143  
144  
145  
146  
147  
148  
149  
150  
151  
152  
153  
154  
155  
156  
157  
158  
159  
160  
161  
162  
163  
164  
165  
166  
167  
168  
169  
170  
171  
172  
173  
174  
175  
176  
177  
178  
179  
180  
181  
182  
183  
184  
185  
186  
187  
188  
189  
190  
191  
192  
193  
194  
195  
196  
197  
198  
199  
200  
201  
202  
203  
204  
205  
206  
207  
208  
209  
210  
211  
212  
213  
214  
215  
216  
217  
218  
219  
220  
221  
222  
223  
224  
225  
226  
227  
228  
229  
230  
231  
232  
233  
234  
235  
236  
237  
238  
239  
240  
241  
242  
243  
244  
245  
246  
247  
248  
249  
250  
251  
252  
253  
254  
255  
256  
257  
258  
259  
260  
261  
262  
263  
264  
265  
266  
267  
268  
269  
270  
271  
272  
273  
274  
275  
276  
277  
278  
279  
280  
281  
282  
283  
284  
285  
286  
287  
288  
289  
290  
291  
292  
293  
294  
295  
296  
297  
298  
299  
300  
301  
302  
303  
304  
305  
306  
307  
308  
309  
310  
311  
312  
313  
314  
315  
316  
317  
318  
319  
320  
321  
322  
323  
324  
325  
326  
327  
328  
329  
330  
331  
332  
333  
334  
335  
336  
337  
338  
339  
340  
341  
342  
343  
344  
345  
346  
347  
348  
349  
350  
351  
352  
353  
354  
355  
356  
357  
358  
359  
360  
361  
362  
363  
364  
365  
366  
367  
368  
369  
370  
371  
372  
373  
374  
375  
376  
377  
378  
379  
380  
381  
382  
383  
384  
385  
386  
387  
388  
389  
390  
391  
392  
393  
394  
395  
396  
397  
398  
399  
400  
401  
402  
403  
404  
405  
406  
407  
408  
409  
410  
411  
412  
413  
414  
415  
416  
417  
418  
419  
420  
421  
422  
423  
424  
425  
426  
427  
428  
429  
430  
431  
432  
433  
434  
435  
436  
437  
438  
439  
440  
441  
442  
443  
444  
445  
446  
447  
448  
449  
450  
451  
452  
453  
454  
455  
456  
457  
458  
459  
460  
461  
462  
463  
464  
465  
466  
467  
468  
469  
470  
471  
472  
473  
474  
475  
476  
477  
478  
479  
480  
481  
482  
483  
484  
485  
486  
487  
488  
489  
490  
491  
492  
493  
494  
495  
496  
497  
498  
499  
500  
501  
502  
503  
504  
505  
506  
507  
508  
509  
510  
511  
512  
513  
514  
515  
516  
517  
518  
519  
520  
521  
522  
523  
524  
525  
526  
527  
528  
529  
530  
531  
532  
533  
534  
535  
536  
537  
538  
539  
540  
541  
542  
543  
544  
545  
546  
547  
548  
549  
550  
551  
552  
553  
554  
555  
556  
557  
558  
559  
560  
561  
562  
563  
564  
565  
566  
567  
568  
569  
570  
571  
572  
573  
574  
575  
576  
577  
578  
579  
580  
581  
582  
583  
584  
585  
586  
587  
588  
589  
590  
591  
592  
593  
594  
595  
596  
597  
598  
599  
600  
601  
602  
603  
604  
605  
606  
607  
608  
609  
610  
611  
612  
613  
614  
615  
616  
617  
618  
619  
620  
621  
622  
623  
624  
625  
626  
627  
628  
629  
630  
631  
632  
633  
634  
635  
636  
637  
638  
639  
640  
641  
642  
643  
644  
645  
646  
647  
648  
649  
650  
651  
652  
653  
654  
655  
656  
657  
658  
659  
660  
661  
662  
663  
664  
665  
666  
667  
668  
669  
670  
671  
672  
673  
674  
675  
676  
677  
678  
679  
680  
681  
682  
683  
684  
685  
686  
687  
688  
689  
690  
691  
692  
693  
694  
695  
696  
697  
698  
699  
700  
701  
702  
703  
704  
705  
706  
707  
708  
709  
710  
711  
712  
713  
714  
715  
716  
717  
718  
719  
720  
721  
722  
723  
724  
725  
726  
727  
728  
729  
730  
731  
732  
733  
734  
735  
736  
737  
738  
739  
740  
741  
742  
743  
744  
745  
746  
747  
748  
749  
750  
751  
752  
753  
754  
755  
756  
757  
758  
759  
760  
761  
762  
763  
764  
765  
766  
767  
768  
769  
770  
771  
772  
773  
774  
775  
776  
777  
778  
779  
780  
781  
782  
783  
784  
785  
786  
787  
788  
789  
790  
791  
792  
793  
794  
795  
796  
797  
798  
799  
800  
801  
802  
803  
804  
805  
806  
807  
808  
809  
810  
811  
812  
813  
814  
815  
816  
817  
818  
819  
820  
821  
822  
823  
824  
825  
826  
827  
828  
829  
830  
831  
832  
833  
834  
835  
836  
837  
838  
839  
840  
841  
842  
843  
844  
845  
846  
847  
848  
849  
850  
851  
852  
853  
854  
855  
856  
857  
858  
859  
860  
861  
862  
863  
864  
865  
866  
867  
868  
869  
870  
871  
872  
873  
874  
875  
876  
877  
878  
879  
880  
881  
882  
883  
884  
885  
886  
887  
888  
889  
890  
891  
892  
893  
894  
895  
896  
897  
898  
899  
900  
901  
902  
903  
904  
905  
906  
907  
908  
909  
910  
911  
912  
913  
914  
915  
916  
917  
918  
919  
920  
921  
922  
923  
924  
925  
926  
927  
928  
929  
930  
931  
932  
933  
934  
935  
936  
937  
938  
939  
940  
941  
942  
943  
944  
945  
946  
947  
948  
949  
950  
951  
952  
953  
954  
955  
956  
957  
958  
959  
960  
961  
962  
963  
964  
965  
966  
967  
968  
969  
970  
971  
972  
973  
974  
975  
976  
977  
978  
979  
980  
981  
982  
983  
984  
985  
986  
987  
988  
989  
990  
991  
992  
993  
994  
995  
996  
997  
998  
999  
1000



## Attachment C: Emission Source Information

Emission Unit ID	Emission Unit Description	Stack Vent ID	Control Equipment ID	Regulatory Citation
FS-00-001	Fuel Gas System Fugitives	NA	NA	40 CFR Part 60, Subpart GGG 40 CFR Part 63, Subpart CC
FS-01-001	Light Ends Recovery Fugitives	NA	CE-LDAR-QQQ	40 CFR Part 60, Subpart GGG 40 CFR Part 63, Subpart CC
FS-02-001	Alky Feed Mercox Treater Fugitives	NA	CE-LDAR-QQQ	40 CFR Part 60, Subpart GGG 40 CFR Part 63, Subpart CC
FS-03-001	Crude Unit No 1 Fugitives	NA	CE-LDAR	40 CFR Part 60, Subpart GGG 40 CFR Part 63, Subpart CC Consent Decree Appendix 3 Item 3(b)
FS-03-002	IK-22A1, -22A2, -22A3 Fugitives	NA	NA	NA
FS-04-001	Vacuum Unit No 1 Fugitives	NA	NA	KAR 28-19-650 40 CFR Part 60, Subpart GGG Consent Decree Appendix 3 Item 3(c)
FS-04-002	Vacuum Unit No 2 Fugitives	NA	NA	40 CFR Part 60, Subpart GGG
FS-05-001	Vacuum Unit No 3 Fugitives	NA	CE-LDAR-QQQ	40 CFR Part 60, Subpart GGG 40 CFR Part 63, Subpart CC Consent Decree Appendix 3 Item 12
FS-06-001	Crude Unit No 2 Fugitives	NA	CE-LDAR-QQQ	40 CFR Part 60, Subpart GGG 40 CFR Part 63, Subpart CC Consent Decree Appendix 3 Item 14(a)
FS-08-001	#1 HDS Unit Fugitives	NA	CE-LDAR-QQQ	40 CFR Part 60, Subpart GGG 40 CFR Part 63, Subpart CC Consent Decree Appendix 3 Item 14(c)
FS-08-002	#2 HDS Unit Fugitives	NA	CE-LDAR-QQQ	40 CFR Part 60, Subpart GGG 40 CFR Part 63, Subpart CC KDHE Air Permit 8/12/2005
FS-09-001	Hydroben Unit Fugitives	NA	CE-LDAR	40 CFR Part 60, Subpart GGG Consent Decree Appendix 3 Items 3(d) and 14(d)
FS-10-001	Platformer Unit Fugitives	NA	CE-LDAR	40 CFR Part 60, Subpart GGG Consent Decree Appendix 3 Item 3(e)
FS-11-001	Unifiner Fugitives	NA	CE-LDAR	KAR 28-19-650 40 CFR Part 60, Subpart GGG 40 CFR Part 63, Subpart CC
FS-12-001	Coker Unit Fugitives	NA	CE-LDAR	Consent Decree Appendix 3 Item 3(f) 40 CFR Part 60, Subpart GGG Consent Decree Appendix 3 Item 3(f)
FS-13-001	FCC Unit Fugitives	NA	CE-LDAR	40 CFR Part 60, Subpart GGG Consent Decree Appendix 3 Item 3(f)
FS-15-001	Alkylation Unit Fugitives	NA	NA	40 CFR Part 60, Subpart GGG
FS-16-001	TIP Unit Fugitives	NA	CE-LDAR	40 CFR Part 60, Subpart GGG 40 CFR Part 63, Subpart CC
FS-18-001	#1 Sulfur Recovery Unit Fugitives	NA	NA	NA
FS-18-002	#2 Sulfur Recovery Unit Fugitives	NA	NA	NA
FS-18-003	#1 Tail Gas Unit Fugitives	NA	N/A	40 CFR Part 60, Subpart GGG
FS-18-004	#3 Sulfur Recovery Unit Fugitives	NA	NA	NA
FS-18-005	#2 Tail Gas Unit Fugitives	NA	N/A	40 CFR Part 60, Subpart GGG
FS-19-001	Process Gas Treatment Unit Fugitives	NA	CE-LDAR	40 CFR Part 60, Subpart GGG 40 CFR Part 63, Subpart CC
FS-19-002	#1 Amine Unit	NA	CE-LDAR	40 CFR Part 60, Subpart GGG 40 CFR Part 63, Subpart CC
FS-19-003	#2 Amine Unit	NA	CE-LDAR	40 CFR Part 60, Subpart GGG 40 CFR Part 63, Subpart CC
FS-20-001	Jet Fuel Unit Fugitives	NA	CE-LDAR	40 CFR Part 60, Subpart GGG 40 CFR Part 63, Subpart CC Consent Decree Appendix 3 Item 3(a)
FS-21-001	Mercox Unit Fugitives	NA	CE-LDAR	40 CFR Part 60, Subpart GGG
FS-22-001	Sat Gas Unit Fugitives	NA	CE-LDAR	40 CFR Part 60, Subpart GGG 40 CFR Part 63, Subpart CC Consent Decree Appendix 3 Item 14(b)
FS-28-001	Sour Water Stripper Fugitives	NA	CE-QQQ	40 CFR Part 60, Subpart GGG 40 CFR Part 63, Subpart CC

Attachment C: Emission Source Information

Emission Unit ID	Emission Unit Description	Stack Vent ID	Control Equipment ID	Regulatory Citation
FS-30-001	Wastewater Treatment System Fugitives	NA	CE-QQQ	40 CFR Part 60, Subpart GGG 40 CFR Part 63, Subpart CC
FS-39-001	Steam Production Unit Fugitives	NA	NA	NA
FS-96-001	Product Loading Fugitives	NA	CE-LDAR	40 CFR Part 60, Subpart GGG 40 CFR Part 63, Subpart CC Consent Decree Appendix 3 Item 14(e)
IA-04-FH0008	#1 Vacuum - #1 Charge Heater	SV018	NA	KAR 28-19-31 40 CFR Part 63, Subpart DDDDD
IA-04-FH0017	#2 Vacuum - Charge Heater	SV019	NA	KAR 28-19-31 40 CFR Part 60, Subpart J 40 CFR Part 63, Subpart DDDDD
IA-05-FH0036	#3 Vacuum - Feed Heater	SV020	NA	KAR 28-19-31 40 CFR Part 60, Subpart J 40 CFR Part 63, Subpart DDDDD Consent Decree Paragraph 54
IA-06-FH0035	Crude Unit No. 2 Charge Heater	SV021	NA	KAR 28-19-31 40 CFR Part 60, Subpart J 40 CFR Part 63, Subpart DDDDD Consent Decree Paragraph 54
IA-08-FH0030	#1 IIDS Charge Heater	SV022	NA	KAR 28-19-31 40 CFR Part 60, Subpart J 40 CFR Part 63, Subpart DDDDD
IA-08-FH0031	#1 HDS Stripper Reboiler	SV023	NA	KAR 28-19-31 40 CFR Part 60, Subpart J 40 CFR Part 63, Subpart DDDDD
IA-08-FH0045	#2 HDS Reactor Charge Heater	SV024	NA	KAR 28-19-31 40 CFR Part 60, Subpart J 40 CFR Part 63, Subpart DDDDD KDHE Air Permit 08/12/2005
IA-09-FH0011	Hydrobon Debutanizer Reboiler	SV025	NA	KAR 28-19-31 40 CFR Part 60, Subpart J 40 CFR Part 63, Subpart DDDDD
IA-09-FH0013	Hydrobon Charge Heater	SV026	NA	KAR 28-19-31 40 CFR Part 60, Subpart J 40 CFR Part 63, Subpart DDDDD
IA-10-FH0016	Stabilizer Reboiler Heater	SV008	NA	KAR 28-19-31 40 CFR Part 60, Subpart J 40 CFR Part 63, Subpart DDDDD KDHE Air Permit 08/14/78 KDHE Air Permit 09/04/80
IA-11-FH0018	Unifiner Charge Heater B-101	SV027	NA	KAR 28-19-31 40 CFR Part 63, Subpart DDDDD
IA-11-FH0019	Unifiner Stripper Reboiler	SV028	NA	KAR 28-19-31 40 CFR Part 63, Subpart DDDDD
IA-12-FH0038	Coker Heavy Heater (DHR-2A)	SV029	NA	KAR 28-19-31 40 CFR Part 60, Subpart J 40 CFR Part 63, Subpart DDDDD KDHE Air Permit 11/22/93
IA-13-FH0004	OTS - 1K3502 Heater (Portable)	SV030	NA	KAR 28-19-31 40 CFR Part 63, Subpart DDDDD
IA-13-FH0021	Alcom Charge Heater	SV031	NA	KAR 28-19-31 40 CFR Part 60, Subpart J 40 CFR Part 63, Subpart DDDDD KDHE Air Permit 08/14/78 KDHE Air Permit 09/04/80
IA-13-FH0022	FCCU Steam Superheater	SV032	NA	KAR 28-19-31 40 CFR Part 60, Subpart J 40 CFR Part 63, Subpart DDDDD KDHE Air Permit 08/14/78 KDHE Air Permit 09/04/80
IA-15-FH0023	Alkylation Hot Oil Heater	SV033	NA	KAR 28-19-31 40 CFR Part 63, Subpart DDDDD
IA-15-FH0025	Alkylation Olefin Feed Drying Tower Heater	SV034	NA	KAR 28-19-31 40 CFR Part 63, Subpart DDDDD
IA-16-FH0026	Isom Charge Heater	SV035	NA	KAR 28-19-31 40 CFR Part 63, Subpart DDDDD
IA-30-014	Wastewater Area Source	NA	NA	NA

Attachment C: Emission Source Information

Emission Unit ID	Emission Unit Description	Stack Vent ID	Control Equipment ID	Regulatory Citation
IA-96TKADD72	Ethanol Tank	NA	NA	KAR 28-19-650(a)(3)
IA-PUMP1	Emerg. Generator-Firewater Pump No. 1	SV040	NA	KAR 28-19-650(a)(2)
IA-PUMP2	Emerg. Generator-Firewater Pump No. 2	SV041	NA	KAR 28-19-650(a)(3)
IA-PUMP3	Emerg. Generator-Firewater Pump No. 3	SV042	NA	KAR 28-19-650(a)(3)
IA-TEMPGEN	Temporary Emergency Diesel Engine	SV043	NA	Permit Dated 3/16/1999
IA-1K0004	API Separator Sludge Coker	NA	NA	KAR 28-19-650
IA-1K0005	Sulfur Liquid	NA	NA	KAR 28-19-650
IA-1K0006	Fresh Caustic	NA	NA	KAR 28-19-650
IA-1K0010	VOL, Currently Lime Water Sludge	NA	NA	KAR 28-19-650
IA-1K0011	VOL, Currently Lime Water Sludge	NA	NA	KAR 28-19-650
IA-1K0350	Caustic, Fresh	NA	NA	KAR 28-19-650
IA-1K0442	Caustic, Spent	NA	NA	KAR 28-19-650
IA-1K0443	Caustic, Spent	NA	NA	KAR 28-19-650
IA-1K0517	Caustic, Spent	NA	NA	KAR 28-19-650
IA-1K0518	Caustic, Spent	NA	NA	KAR 28-19-650
IA-1K0523	Caustic, Spent	NA	NA	KAR 28-19-650
IA-1K0524	Caustic, Spent	NA	NA	KAR 28-19-650
IA-1KADD84	VOL, Currently Methanol	NA	NA	KAR 28-19-650 40 CFR Part 63, Subpart EEEE
IA-1KADD85	VOL, Currently Methanol	NA	NA	KAR 28-19-650 40 CFR Part 63, Subpart EEEE
IA-1KADD86	VOL, Currently Gasoline	NA	NA	KAR 28-19-650
IA-1KADD87	VOL, Currently Gasoline	NA	NA	KAR 28-19-650
EU-00-003	Fuel Gas Mix Drum Vent	SV011	CE-COKERFLARE	NA
EU-00-004	Coker Flare	SV011	NA	KAR 28-19-650 40 CFR Part 60, Subpart J 40 CFR Part 63, Subpart A Consent Decree Paragraph 60
EU-00-100	Sunflower Tankfarm Wastewater Sump	NA	NA	KAR 28-19-650
EU-03-001	North Crude Sump	SV003	NA	KAR 28-19-650
EU-03-100	Crude Unit No. 1 Wastewater Sump	NA	NA	KAR 28-19-650
EU-03-FH0005	Radco Crude Unit Heater	SV036	NA	KAR 28-19-31 40 CFR Part 60, Subpart J 40 CFR Part 63 Subpart DDDDD Consent Decree Paragraph 56
EU-03-FH0006	Crude OFF Heater	SV037	NA	KAR 28-19-31 40 CFR Part 60, Subpart J 40 CFR Part 63 Subpart DDDDD KDHE Air Permit Dated 12/21/76
EU-03-F0084	#1 Crude Tower	NA	NA	Consent Decree Paragraph 62 and Appendix 3 Item 6
EU-03-0047	Crude Tower Off-Gas Compressor	NA	NA	Consent Decree Appendix 3 Item 14(f)
EU-04-100	Vacuum Unit Nos. 1 and 2 Wastewater Sump	NA	NA	KAR 28-19-650
EU-05-100	Vacuum Unit No. 3 Wastewater Sump	NA	CE-QQQ	40 CFR 60 Subpart QQQ Consent Decree Appendix 3 Item 12
EU-05-100	Crude Unit No. 2 Wastewater Sump	NA	CE-QQQ	40 CFR 60 Subpart QQQ Consent Decree Appendix 3 Item 9

Attachment C: Emission Source Information

Emission Unit ID	Emission Unit Description	Stack Vent ID	Control Equipment ID	Regulatory Citation
EU-08-100	#1 HDS Unit Wastewater Sump	NA	CE-QQQ	40 CFR 60 Subpart QQQ Consent Decree Appendix 3 Item 8
EU-08-101	#2 HDS Unit Wastewater Sump	NA	CE-QQQ	40 CFR 60 Subpart QQQ
EU-08-102	Cold Water Pond Flare	SV015	NA	KAR 28-19-650
EU-09-001	A Compressor Packing Vent	SV046	NA	KAR 28-19-650
EU-09-002	B Compressor Packing Vent	SV047	NA	KAR 28-19-650
EU-10-003	South Crude Sump	SV004	NA	KAR 28-19-650
EU-10-005	"G" PD-13B-2&4 Packing Vent	SV048	NA	KAR 28-19-650
EU-10-006	G" PD-13B-1&3 Packing Vent	SV049	NA	KAR 28-19-650
EU-10-007	F PD-13A-2&4 Packing Vent	SV050	NA	KAR 28-19-650
EU-10-008	F PD-13A-1&3 Packing Vent	SV051	NA	KAR 28-19-650
EU-10-009	Reformer Regeneration Vent	SV013	NA	KAR 28-19-650 40 CFR Part 60, Subpart J 40 CFR Part 63, Subpart UUU
EU-10-100	Platformer Unit Wastewater Sump	NA	NA	KAR 28-19-650
EU-10-FH0014	Reformer #1 & #3 Reactor Heaters	SV008	NA	KAR 28-19-31 40 CFR Part 60, Subpart J 40 CFR Part 63, Subpart DDDDD KDHE Air Permit Dated 08/14/78 PSD Permit Dated 09/04/80
EU-10-FH0015	Reformer Reactor Heater #2	SV008	NA	KAR 28-19-31 40 CFR Part 63, Subpart DDDDD PSD Permit Dated 09/04/80
EU-12-001	Coker Sump	SV001	NA	KAR 28-19-650
EU-12-002	North Compressor Packing (D-CM-2) Vent	SV052	NA	KAR 28-19-650
EU-12-003	South Compressor Packing (D-CM-1) Vent	SV053	NA	KAR 28-19-650
EU-12-004	Clark 1000 HP Compressor (D-CU-3) Packing Vent	SV054	NA	KAR 28-19-650
EU-12-010	Coker Compressor Natural Gas Engine	SV044	NA	KAR 28-19-650 KDHE Air Permit 02/18/94
EU-12-FH0003	Coker Heavy Heater (DHR-3)	SV038	NA	KAR 28-19-31 40 CFR Part 60, Subpart J 40 CFR Part 63, Subpart DDDDD KDHE Air Permit Dated 12/21/76
EU-13-001	FCCU Sump	SV002	NA	KAR 28-19-650
EU-13-002	FCCU Catalytic Regenerator Vent	SV010	CE-PRECIPW/CE-PRECIPE	KAR 28-19-19 40 CFR Part 60, Subpart J 40 CFR Part 63, Subpart UUU Consent Decree Paragraphs 23, 42, 44 and Appendix 3 Item 2
EU-13-COMP	FCCU Waste Gas Compressor	SV045	NA	KAR 28-19-650
EU-15-001	Alkylation Flare	SV005	NA	KAR 28-19-650
EU-15-003	Flare Liquid Knockout Drum	SV005	CE-ALKYFLARE	NA
EU-15-FH0024	Alkylation Isostripper Reboiler	SV039	NA	KAR 28-19-31 40 CFR Part 63, Subpart DDDDD
EU-16-001	C Compressor Packing Vent	SV055	NA	KAR 28-19-650
EU-16-002	D Compressor Packing Vent	SV056	NA	KAR 28-19-650
EU-16-003	E Compressor Packing Vent	SV057	NA	KAR 28-19-650
EU-18-0010	#2 Tail Gas Thermal Oxidizer	SV014	CE-SRUTG2	KAR 28-19-650 40 CFR Part 60, Subpart J 40 CFR Part 63, Subpart UUU KDHE Air Permit 8/12/2005

Attachment C: Emission Source Information

Emission Unit ID	Emission Unit Description	Stack Vent ID	Control Equipment ID	Regulatory Citation
EU-18-002	#1 Tail Gas Thermal Oxidizer	SV006	CE-SRUTG1	KAR 28-19-650 40 CFR Part 60, Subpart J 40 CFR Part 63, Subpart UUU Consent Decree Paragraph 52
EU-19-001	V5040 (Amine Sump) Vent	NA	NA	KAR 28-19-650
EU-19-002	Glycol Reboiler & Stripper OH Vent	NA	NA	KAR 28-19-650
EU-19-004	Glycol Surge Drum Vent	NA	NA	KAR 28-19-650
EU-21-001	Disulfide Separator OH (V0234) through PCV-2243	NA	NA	NA
EU-28-001	Sour Water Stripper	NA	NA	Consent Decree Paragraph 53
EU-28-100	Sour Water Stripper Wastewater Sump	NA	CE-QQQ	40 CFR 60 Subpart QQQ Consent Decree Paragraph 53 and Appendix 3 Item 11
EU-30-001	API Oil-Water Separator	SV007	CE-QQQ/CE-APIFLARE	40 CFR Part 60, Subpart QQQ
EU-30-002	Primary DAF	NA	NA	NA
EU-30-015	VOC Combustor for API Separator	SV007	NA	KAR 28-19-650 40 CFR Part 60, Subpart J 40 CFR Part 60, Subpart QQQ Consent Decree Paragraph 61
EU-39-001	Coal Storage Piles	NA	NA	KAR 28-19-20
EU-39-FH0027	CFB - #1 Coal Fired Boiler	SV009	CE-BAGHSE	KAR 28-19-31 40 CFR Part 60, Subpart J 40 CFR Part 60, Subpart D 40 CFR Part 63, Subpart DDDDD Consent Decree Paragraph 33 PSD Air Permit 03/30/78, 09/04/80 Consent Decree Paragraphs 63 to 65
EU-39-FH0028	#2 Boiler	SV016	NA	KAR 28-19-31 40 CFR Part 60, Subpart J 40 CFR Part 60, Subpart Db 40 CFR Part 63, Subpart DDDDD
EU-39-FH0029	#3 Boiler	SV017	NA	KAR 28-19-31 40 CFR Part 60, Subpart J 40 CFR Part 60, Subpart Db 40 CFR Part 63, Subpart DDDDD
EU-96-100	Product Loading Unit Wastewater Sump	NA	NA	NA
EU-96-900	Gasoline Loading Rack	SV012	CE-LOADFLARE	40 CFR Part 63, Subpart CC
EU-96-901	VOC Combustor - New Loading Rack	SV012	NA	KAR 28-19-650 40 CFR Part 60, Subpart J 40 CFR Part 63, Subpart CC KDHE Air Permit 09/18/2000 Consent Decree Appendix 3 Item 10
EU-C11	Cooling Tower #1	NA	NA	KAR 28-19-650
EU-C110	Cooling Tower #10	NA	NA	KAR 28-19-650
EU-C111	Cooling Tower #11	NA	NA	KAR 28-19-650
EU-C112	Cooling Tower #12	NA	NA	KAR 28-19-650
EU-C13	Cooling Tower #3	NA	NA	KAR 28-19-650
EU-C15	Cooling Tower #5	NA	NA	KAR 28-19-650
EU-C15A	Cooling Tower #5A	NA	NA	KAR 28-19-650
EU-C19	Cooling Tower #9	NA	NA	KAR 28-19-650
IK-0009	Tank Storing VOL, Currently API Separator Sludge (H2O)	SV007	CE-APIFLARE	40 CFR Part 60 Subpart QQQ
IK-0201	Tank Storing VOL, Currently Reclaimed Oil	SV007	CE-APIFLARE	40 CFR Part 60, Subpart Kb 40 CFR Part 63, Subpart CC

Attachment C: Emission Source Information

Emission Unit ID	Emission Unit Description	Stack Vent ID	Control Equipment ID	Regulatory Citation
TK-0202	Tank Storing VOL, Currently Reclaimed Oil	SV007	CE-APPL/LARE	40 CFR Part 60, Subpart Kb 40 CFR Part 63, Subpart CC KAR 28-19-650
TK-0242	Tank Storing VOL, Currently Slop Oil	NA	NA	40 CFR Part 63, Subpart CC KAR 28-19-650
TK-0243	Tank Storing VOL, Currently API Separator Sludge (H2O)	SV007	CE-APPL/LARE	40 CFR Part 60 Subpart QQQ KAR 28-19-650
TK-0270	Tank Storing VOL, Currently Slop Oil	NA	NA	40 CFR Part 63, Subpart CC KAR 28-19-650
TK-0340	Tank Storing VOL, Currently Coker Cycle Oil	NA	NA	40 CFR Part 63, Subpart CC KAR 28-19-650
TK-0341	Tank Storing VOL, Currently Coker Gas Oil	NA	NA	40 CFR Part 63, Subpart CC KAR 28-19-650
TK-0424	Tank Storing VOL, Currently Light Cycle Oil	NA	NA	40 CFR Part 63, Subpart CC KAR 28-19-650
TK-0426	Tank Storing VOL, Currently K-1 Kerosene	NA	NA	40 CFR Part 63, Subpart CC KAR 28-19-650
TK-0482	Tank Storing VOL, Currently Coker Cycle Oil	NA	NA	40 CFR Part 63, Subpart CC KAR 28-19-650
TK-0487	Tank Storing VOL, Currently Vacuum Bottoms	NA	NA	40 CFR Part 63, Subpart CC KAR 28-19-650
TK-0488	Tank Storing VOL, Currently Off Spec Uniformer HDS	NA	NA	40 CFR Part 63, Subpart CC KAR 28-19-650
TK-0503	Tank Storing VOL, Currently Slurry	NA	NA	40 CFR Part 63, Subpart CC KAR 28-19-650
TK-0504	Tank Storing VOL, Currently Slurry	NA	NA	40 CFR Part 63, Subpart CC KAR 28-19-650
TK-0505	Tank Storing VOL, Currently Light Cycle Oil	NA	NA	40 CFR Part 63, Subpart CC KAR 28-19-650
TK-0506	Tank Storing VOL, Currently Light Cycle Oil	NA	NA	40 CFR Part 63, Subpart CC KAR 28-19-650
TK-0551	Tank Storing VOL, Currently Reclaimed Oil	NA	NA	40 CFR Part 63, Subpart CC KAR 28-19-650
TK-0552	Tank Storing VOL, Currently Reclaimed Oil	NA	NA	40 CFR Part 63, Subpart CC KAR 28-19-650
TK-1006	Tank Storing VOL, Currently Diesel	NA	NA	40 CFR Part 63, Subpart CC KAR 28-19-650
TK-1007	Tank Storing VOL, Currently Coker Cycle Oil	NA	NA	40 CFR Part 63, Subpart CC KAR 28-19-650
TK-1011	Tank Storing VOL, Currently Reduced Crude	NA	NA	40 CFR Part 63, Subpart CC KAR 28-19-650
TK-1013	Tank Storing VOL, Currently Naplitha	NA	NA	40 CFR Part 63, Subpart CC KAR 28-19-650
TK-1203	Tank Storing VOL, Currently Slurry	NA	NA	40 CFR Part 63, Subpart CC KAR 28-19-650
TK-1206	Tank Storing VOL, Currently Coker Cycle Oil	NA	NA	40 CFR Part 63, Subpart CC KAR 28-19-650
TK-1207	Tank Storing VOL, Currently Coker Cycle Oil	NA	NA	40 CFR Part 63, Subpart CC KAR 28-19-650
TK-1208	Tank Storing VOL, Currently Coker Cycle Oil	NA	NA	40 CFR Part 63, Subpart CC KAR 28-19-650
TK-14A2	Tank Storing VOL, Currently API Equalizer (H2O)	NA	NA	40 CFR Part 63, Subpart CC
TK-14A3	Tank Storing VOL, Currently Gas Oil	NA	NA	40 CFR Part 63, Subpart CC
TK-1502	Tank Storing VOL, Currently Treated Naplitha	NA	NA	40 CFR Part 63, Subpart CC
TK-15A1	Tank Storing VOL, Currently Cat Gasoline	NA	NA	KAR 28-19-23 40 CFR Part 63, Subpart CC
TK-15A2	Tank Storing VOL, Currently Diesel	NA	NA	40 CFR Part 63, Subpart CC
TK-22A1	Tank Storing VOL, Currently Crude Oil	NA	NA	40 CFR Part 60, Subpart K 40 CFR Part 63, Subpart CC
TK-22A2	Tank Storing VOL, Currently Crude Oil	NA	NA	40 CFR Part 60, Subpart K 40 CFR Part 63, Subpart CC
TK-22A3	Tank Storing VOL, Currently Crude Oil	NA	NA	40 CFR Part 60, Subpart K 40 CFR Part 63, Subpart CC
TK-22A4	Tank Storing VOL, Currently Distillate	NA	NA	40 CFR Part 63, Subpart CC
TK-2501	Tank Storing VOL, Currently Slurry	NA	NA	KAR 28-19-650 40 CFR Part 63, Subpart CC
TK-2502	Tank Storing VOL, Currently Slurry	NA	NA	KAR 28-19-650 40 CFR Part 63, Subpart CC

Attachment C: Emission Source Information

Emission Unit ID	Emission Unit Description	Stack Vent ID	Control Equipment ID	Regulatory Citation
IK-2503	Tank Storing VOL, Currently Tar	NA	NA	KAR 28-19-650 40 CFR Part 63, Subpart CC
IK-2504	Tank Storing VOL, Currently Coker Cycle Oil	NA	NA	KAR 28-19-650 40 CFR Part 63, Subpart CC
IK-2509	Tank Storing VOL, Currently Treated Naphtha	NA	NA	KAR 28-19-650 40 CFR Part 63, Subpart CC
IK-2510	Tank Storing VOL, Currently Gasoline	NA	NA	KAR 28-19-650 40 CFR Part 63, Subpart CC
IK-2511	Tank Storing VOL, Currently Gasoline	NA	NA	KAR 28-19-23 40 CFR Part 63, Subpart CC
IK-2512	Tank Storing VOL, Currently Gasoline	NA	NA	KAR 28-19-23 40 CFR Part 63, Subpart CC
IK-2513	Tank Storing VOL, Currently Naphtha	NA	NA	KAR 28-19-23 40 CFR Part 60, Subpart Kb 40 CFR Part 63, Subpart CC
IK-3003	Tank Storing VOL, Currently Sour Water	NA	NA	KAR 28-19-650 KAR 28-19-23
IK-3501	Tank Storing VOL, Currently Platformer Splitter Bottoms	NA	NA	KAR 28-19-23 40 CFR Part 60, Subpart Kb 40 CFR Part 63, Subpart CC
IK-5503	Tank Storing VOL, Currently Reduced Crude	NA	NA	KAR 28-19-650 40 CFR Part 63, Subpart CC
IK-5504	Tank Storing VOL, Currently Gas Oil	NA	NA	KAR 28-19-650 40 CFR Part 63, Subpart CC
IK-5505	Tank Storing VOL, Currently Gas Oil	NA	NA	KAR 28-19-650 40 CFR Part 63, Subpart CC
IK-6701	Tank Storing VOL, Currently Platformate	NA	NA	KAR 28-19-650 40 CFR Part 63, Subpart CC
IK-8001	Tank Storing VOL, Currently Gasoline	NA	NA	KAR 28-19-650 40 CFR Part 63, Subpart CC
IK-8002	Tank Storing VOL, Currently Gasoline	NA	NA	KAR 28-19-650 40 CFR Part 63, Subpart CC
IK-8003	Tank Storing VOL, Currently Gasoline	NA	NA	KAR 28-19-650 40 CFR Part 63, Subpart CC
IK-8004	Tank Storing VOL, Currently Gasoline	NA	NA	KAR 28-19-650 40 CFR Part 63, Subpart CC
IK-8005	Tank Storing VOL, Currently Diesel	NA	NA	KAR 28-19-650 40 CFR Part 63, Subpart CC
IK-8007	Tank Storing VOL, Currently Gasoline	NA	NA	KAR 28-19-650 40 CFR Part 63, Subpart CC
IK-8009	Tank Storing VOL, Currently Isomerate/Gasoline	NA	NA	KAR 28-19-650 40 CFR Part 63, Subpart CC
IK-8010	Tank Storing VOL, Currently Crude Oil	NA	NA	KAR 28-19-650 40 CFR Part 63, Subpart CC
IK-8011	Tank Storing VOL, Currently Vacuum Tar	NA	NA	KAR 28-19-650 40 CFR Part 63, Subpart CC
IK-8012	Tank Storing VOL, Currently Naphtha	NA	NA	KAR 28-19-23 40 CFR Part 63, Subpart CC
IK-8013	Tank Storing VOL, Currently Naphtha	NA	NA	KAR 28-19-23 40 CFR Part 63, Subpart CC
IK-8014	Tank Storing VOL, Currently Gasoline	NA	NA	KAR 28-19-23 40 CFR Part 63, Subpart CC
IK-8015	Tank Storing VOL, Currently Vacuum Tar	NA	NA	40 CFR Part 63, Subpart CC
IK-8016	Tank Storing VOL, Currently Distillate	NA	NA	40 CFR Part 63, Subpart CC
IK-8017	Tank Storing VOL, Currently Distillate	NA	NA	KAR 28-19-23 40 CFR Part 63, Subpart CC
IK-8018	Tank Storing VOL, Currently Distillate	NA	NA	40 CFR Part 63, Subpart CC
IK-8019	Tank Storing VOL, Currently Distillate	NA	NA	40 CFR Part 63, Subpart CC
IK-8020	Tank Storing VOL, Currently Distillate	NA	NA	40 CFR Part 63, Subpart CC
IK-8021	Tank Storing VOL, Currently Distillate	NA	NA	40 CFR Part 63, Subpart CC
IK-8022	Tank Storing VOL, Currently Coker Cycle Oil	NA	NA	40 CFR Part 63, Subpart CC
IK-8023	Tank Storing VOL, Currently Light Cycle Oil	NA	NA	40 CFR Part 63, Subpart CC

Attachment C: Emission Source Information

Emission Unit ID	Emission Unit Description	Stack Vent ID	Control Equipment ID	Regulatory Citation
Facility Wide	Facility Wide	NA	NA	KAR 28-50-4(b) KAR 28-50-8 -13, -14 KAR 28-19-10, -11(B) -645 40 CFR Part 60, Subpart A 40 CFR Part 61, Subpart A 40 CFR Part 63, Subpart A 40 CFR 63.2346(d) Consent Decree Paragraph 59 Consent Decree Appendix 3 Items 1, 4, 5, 7



**Attachment D**  
**Applicable Requirements**

Applicable Requirement	Citation	Process Unit Fugitive Emissions Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Equipment Leaks 1	40 CFR 63.640(p)	This source is subject to NSPS Subpart GGG & NESHAP Subpart CC. 40 CFR 63.640(p) states that after the compliance dates, sources subject to both rules are to comply only with the MACT rule for equipment in organic HAP service.	Maintain on site for review required records for 5 years unless otherwise specified by the referenced citation.
MACT Subpart CC - Equipment Leaks 2	40 CFR 63.641	Since the unit is subject to the Refinery MACT rule for Equipment Leaks, the requirements outlined in this table apply to all equipment in organic HAP service (i.e. contacts or contains a fluid that is at least 5% by weight of total organic HAP).	Maintain on site for review required records for 5 years unless otherwise specified by the referenced citation.
MACT Subpart CC - Equipment Leaks 3	40 CFR 63.648(a)	Compliance with this MACT rule will be demonstrated by compliance with NESHAP Subpart H as specified in 40 CFR 64.648 and outlined in this table.	Maintain on site for review required records for 5 years unless otherwise specified by the referenced citation.
MACT Subpart CC - Equipment Leaks 4	40 CFR 63.648(b)(1-2)	If monitoring data generated before 8-18-95 is used to qualify for less frequent monitoring of valves and pumps, it must meet the test methods and procedures specified in 40 CFR 63.648 (b)(1-2).	Maintain for review a record of the test methods and procedures, for data generated before 8/18/95 (if used to qualify for less frequent monitoring of valves/pumps).
MACT Subpart CC - Equipment Leaks 5	40 CFR 63.648(g)	If compressor is in hydrogen service, it is exempt from the requirements of this rule. Demonstrate that compressor is in hydrogen service according to guidelines in 40 CFR 63.648 (g)(1-2).	Maintain on file for review a record of the criterion used to establish that a compressor is in hydrogen service.
MACT Subpart CC - Equipment Leaks 6	40 CFR 63.654(d)(3)	If a compressor is determined to be in hydrogen service, maintain a record of the demonstration used to make this determination.	Maintain on file for review a record of the criterion used to establish that a compressor is in hydrogen service.
NSPS Subpart GGG 7	40 CFR 60.590	Since the unit is subject to NSPS Subpart GGG, the requirements outlined in this table apply to all equipment in VOC service (i.e. contacts or contains fluid that is 10% VOC by weight).	Maintain on site for review required records for 5 years unless otherwise specified by the referenced citation.
NSPS Subpart GGG 8	40 CFR 60.592 (a)	Comply with the requirements of §§60.482-1 to 60.482-10 as soon as practicable, but no later than 180 days after initial startup.	Comply with Refinery NSPS GGG requirements for equipment VOC leaks.

		Process Unit Fugitive Emissions	
Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart GGG	40 CFR 60.593 (b)	If the compressor is presumed to be in hydrogen service, and therefore exempt from the requirements of 40 CFR 60.593, demonstrate that the compressor is in hydrogen service according to the guidelines in 40 CFR 60.593 (b).	Maintain on file for review a record of the criterion used to establish that a compressor is in hydrogen service.
9			
NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.482-2(a)(1) & 63.648(a)	Monitor monthly each pump in LL service (unless equipped w/dual mechanical seal system). A leak is detected by a reading of 10,000 ppm or greater.	Monitor monthly, each pump in light liquid service not equipped with a dual mechanical seal, using Method 21 as specified in 40 CFR 60.485(b). Maintain leak detection records on file for 5 years or as specified in the referenced citation.
10			
NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.482-2(a)(2) & 63.648(a)	Visually inspect each pump in LL service weekly for indications of liquids dripping from the pump seal (unless equipped w/dual mechanical seal system). A leak is detected if liquid is noted dripping from the pump seal.	Visually inspect on a weekly basis, each pump in light liquid service not equipped with a mechanical seal system. Maintain leak detection records on file for 5 years unless otherwise specified in the referenced citation.
11			
NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.482-2(c)(1-2) & 63.648(a)	Repair any leak detected from the pump as soon as practicable but no later than 15 calendar days after detection. First attempt shall be made no later than 5 calendar days after detection.	Maintain records for 5 years, that demonstrate a first attempt at repair is made within 5 calendar days of detection of leak and the completion of the repairs is made within 15 calendar days, unless a delay of repair is allowed.
12			
NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.482-2(d)(1)(i-iii) & 63.648(a)	For each pump equipped w/dual mechanical seal system, ensure it operates w/barrier fluid pressure > pump stuffing box pressure or equip w/barrier fluid degassing reservoir or equip w/system to purge barrier fluid into process stream w/no VOC emissions.	Maintain records for 5 years that demonstrate equipment is operated at the specified pressure, or is equipped with a system as specified in the referenced citation.
13			
NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.482-2(d)(2) & 63.648(a)	For each pump equipped w/dual mechanical seal system, ensure that the barrier fluid system is not in VOC service or is in heavy liquid service.	Facility shall maintain records to demonstrate that the barrier fluid system is operating in heavy liquid service or is not in VOC service.
14			
NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.482-2(d)(3) & 63.648(a)	For each pump equipped w/dual mechanical seal system, ensure that each barrier fluid system is equipped w/sensor to detect failure of seal system, barrier fluid system, or both.	Maintain records that demonstrate equipment has a sensor to detect failure of the seal system, barrier fluid system, or both.
15			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
16 NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.482-2(d)(4) & 63.648(a)	For each pump equipped w/dual mechanical seal system, visually inspect pump each calendar week for indications of liquids dripping from the pump seals.	Maintain records that demonstrate each pump equipped with a dual mechanical seal system is inspected weekly for indications of dripping liquids.
17 NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.482-2(d)(5)(i) & 63.648(a)	For each pump equipped w/dual mechanical seal system and barrier fluid sensor, check daily the sensor or ensure that sensor is equipped with an audible alarm.	Maintain records that demonstrate the sensors on the barrier fluid systems are equipped with an audible alarm or check the sensor daily and record the observations.
18 NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.482-2(d)(5)(ii) & 63.648(a)	For each pump equipped w/dual mechanical seal system and barrier fluid sensor, establish a criterion that indicates failure of the seal system, barrier fluid system, or both.	Maintain records that demonstrate the standard operating procedure for equipment include the criterion that indicates failure of the seal system, barrier fluid system, or both.
19 NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.482-2(d)(6)(i-iii) & 63.648(a)	For leaks detected from pumps equipped w/dual mechanical seal system, attempt repair within 5 calendar days of detection and complete within 15 days.	Maintain records for 5 years, that demonstrate a first attempt at repair is made within 5 calendar days of detection of leak and the completion of the repairs is made within 15 calendar days, unless a delay of repair is allowed.
20 NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.482-2(e)(1-3) & 63.648(a)	If a pump is determined to have no detectable emissions, it is exempt from monitoring. Demonstrate this status by instrument reading of 500 ppm or less initially and annually.	Record and maintain on file for review the data showing an instrument reading of 500 ppm or less, demonstrating initial and annual non-detectable emission status.
21 NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.482-2(f) & 63.648(a)	If pump is equipped with a closed vent system, it is exempt from monitoring. Ensure that CVS is capable of capturing and transporting any leakage from the seal(s) to a control device that complies with 40 CFR 60.482-10.	Maintain records that demonstrate the closed vent system will comply with the control requirements as outlined in this table and specified in 40 CFR 60.482-10.
22 NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.482-3(a) & 63.648(a)	Equip each compressor with a seal system that includes a barrier fluid system and that prevents leakage of VOC to the atmosphere.	Maintain records that demonstrate compressors are equipped with a barrier fluid seal system to prevent leaking of VOC to the atmosphere.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.482-3(b)(1-3) & 63.648(a)	Ensure that each compressor seal system is operated w/barrier fluid pressure > stuffing box pressure or equip w/barrier fluid system that is connected to CVS, or equip w/system to purge barrier fluid into processes stream w/no VOC emissions to atmosphere.	Maintain records for 5 years that demonstrate equipment is operated at the specified pressure, or is equipped with a system as specified in the referenced citation.
23			
NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.482-3(c) & 63.648(a)	Ensure that the barrier fluid system for the compressor is in heavy liquid service or not in VOC service.	Facility shall maintain records to demonstrate that the barrier fluid system is operating in heavy liquid service or is not in VOC service.
24			
NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.482-3(d) & 63.648(a)	Ensure that the barrier fluid system on each compressor is equipped with a sensor that will detect failure of the seal system, barrier fluid system, or both.	Maintain records that demonstrate equipment has a sensor to detect failure of the seal system, barrier fluid system, or both.
25			
NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.482-3(e)(1) & 63.648(a)	For each compressor and barrier fluid system equipped w/sensor, check daily the sensor or equip with an audible alarm.	Maintain records that demonstrate the sensors on the barrier fluid systems are equipped with an audible alarm or check the sensor daily and record the observations.
26			
NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.482-3(e)(2) & 63.648(a)	For each compressor and barrier fluid system, establish a criterion that indicates failure of the seal system, barrier fluid system, or both.	Maintain records that demonstrate the standard operating procedure for equipment include the criterion that indicates failure of the seal system, barrier fluid system, or both.
27			
NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.482-3(g)(1-2) & 63.648(a)	Repair any leak detected from the compressor as soon as practicable but no later than 15 calendar days after detection. First attempt shall be made not later than 5 calendar days after detection.	Maintain records for 5 years, that demonstrate a first attempt at repair is made within 5 calendar days of detection of leak and the completion of the repairs is made within 15 calendar days, unless a delay of repair is allowed.
28			
NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.482-3(h) & 63.648(a)	If compressor is equipped with a closed vent system, it is exempt from monitoring. Ensure that CVS is capable of capturing and transporting any leakage from the seal(s) to a control device that complies with 40 CFR 60.482-10.	Maintain records that demonstrate the closed vent system will comply with the control requirements as outlined in this table and specified in 40 CFR 60.482-10.
29			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart GGG & MACT Subpart CC 30	40 CFR 60.482-3(f)(1-2) & 63.648(a)	If compressor is determined to have no detectable emissions, it is exempt from monitoring. Demonstrate this status by instrument reading of 500 ppm or less initially and annually.	Monitor the compressor initially and annually using Reference Method 21. Record the instrument reading and maintain the records for 5 years.
NSPS Subpart GGG & MACT Subpart CC 31	40 CFR 60.482-3(f) & 63.648(a)	If compressor becomes affected under 60.14 or 60.15, it is exempt from all provisions for compressors. Demonstrate that recasting the distance piece or replacing compressor are only options to achieve compliance.	Maintain on file, a record of demonstration for 5 years unless otherwise specified in the referenced citation.
NSPS Subpart GGG & MACT Subpart CC 32	40 CFR 60.482-4(a) & 63.648(a)	Operate pressure relief device (PRD) with no detectable emissions (<500 ppm) except during pressure releases.	Monitor pressure relief devices and maintain records to demonstrate no detectable emissions (<500 ppm) as soon as practicable, and if practicable, after the release.
NSPS Subpart GGG & MACT Subpart CC 33	40 CFR 60.482-4(b)(1) & 63.648(a)	Ensure that PRD returns to condition of no detectable emissions after each pressure release as soon as practicable but no later than 5 calendar days after release.	Monitor pressure relief devices and maintain records to demonstrate no detectable emissions (<500 ppm) as soon as practicable, and if practicable, after the release.
NSPS Subpart GGG & MACT Subpart CC 34	40 CFR 60.482-4(b)(2) & 63.648(a)	After pressure release of PRD (no later than 5 calendar days), monitor to confirm conditions of no detectable emissions.	Monitor pressure relief devices and maintain records to demonstrate no detectable emissions (<500 ppm) as soon as practicable, and if practicable, after the release.
NSPS Subpart GGG & MACT Subpart CC 35	40 CFR 60.482-4(c) & 63.648(a)	If PRD is equipped with a closed vent system, it is exempt from monitoring. Ensure that CVS is capable of capturing and transporting any leakage from the seal(s) to a control device that complies with 40 CFR 60.482-10.	Source(s) meets applicability. Therefore, compliance is presumed.
NSPS Subpart GGG & MACT Subpart CC 36	40 CFR 60.482-4(d)(1) & 63.648(a)	Any pressure relief device that is equipped with a rupture disk upstream of the relief device is exempt from the requirements of 40 CFR 60.482-4(a)(b).	Monitor rupture disks and maintain records to document that a release has occurred.
NSPS Subpart GGG & MACT Subpart CC 37	40 CFR 60.482-4(d)(2) & 63.648(a)	After each pressure release, a new rupture disk shall be installed upstream of the pressure relief device as soon as practicable, but no later than 5 calendar days after each pressure release, except as provided in 40 CFR 60.482-9	Maintain records to demonstrate the installation of a new rupture disk after a release, or a delay of repair report is filed.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart GGG & MACT Subpart CC 38	40 CFR 60.482-5(a) & 63.648(a)	Equip each sampling connection system with a closed purge system or closed vent system (CVS).	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
NSPS Subpart GGG & MACT Subpart CC 39	40 CFR 60.482-5(b)(1-3) & 63.648(a)	Ensure each closed purge system on sampling collection system returns purged fluid directly to process w/no VOC emissions or collects & recycles purge fluid w/no VOC emissions or is designed/operated to capture & transport purged fluid to control device.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
NSPS Subpart GGG & MACT Subpart CC 40	40 CFR 60.482-5(c) & 63.648(a)	In-situ sampling systems and sampling systems without purges are exempt from 60.482-5(a) & (b) requirements.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
NSPS Subpart GGG & MACT Subpart CC 41	40 CFR 60.482-6(a)(1) & 63.648(e)	Equip each open-ended valve or line with cap, blind flange, plug, or second valve.	Maintain records that demonstrate open-ended valves and lines are capped, plugged, or equipped with blind flange or second valve as appropriate.
NSPS Subpart GGG & MACT Subpart CC 42	40 CFR 60.482-6(a)(2) & 63.648(a)	Ensure that the cap, blind flange, plug, or second valve on open-ended valve or line seals the open end at all times except during operations requiring fluid flow through open-ended valve or line.	Perform monthly visual inspection of open-ended valves and lines to ensure caps or plugs are in place and operate properly.
NSPS Subpart GGG & MACT Subpart CC 43	40 CFR 60.482-6(b) & 63.648(a)	Ensure that each open-ended valve or line that is equipped with a second valve is operated in a manner such that the valve on the process fluid end is closed before the second valve is closed.	Perform monthly visual inspection of open-ended valves and lines to ensure caps or plugs are in place and operate properly.
NSPS Subpart GGG & MACT Subpart CC 44	40 CFR 60.482-7(a-b) & 63.648(a)	Monitor each valve in gas/vapor service monthly to detect leaks. A leak is an instrument reading of 10,000 ppm or greater.	Monitor on a monthly basis, valves in gas/vapor service using Method 21 as specified in 40 CFR 60.485(b) and maintain leak detection records on file for review.
NSPS Subpart GGG & MACT Subpart CC 45	40 CFR 60.482-7(c)(1) & 63.648(a)	Reduce monitoring of any gas/vapor valve for which a leak is not detected for 2 successive months to quarterly until leak is detected.	Maintain records of non-leaking status to demonstrate eligibility for reduced monitoring of valves.

Applicable Requirement	Citation	Process Unit Fugitive Emissions Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
46 NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.482-7(e)(2) & 63.648(a)	For any gas/vapor valve which was being monitored at a reduced frequency and for which a leak is detected, monitor monthly until leak not detected for 2 successive months.	Maintain records of non-leaking status to demonstrate eligibility for reduced monitoring of valves.
47 NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.482-7(d)(1-2) & 63.648(a)	Repair any leak detected from the gas/vapor valve as soon as practicable but no later than 15 calendar days after detection. First attempt shall be made not later than 5 calendar days after detection.	Maintain records for 5 years, that demonstrate a first attempt at repair is made within 5 calendar days of detection of leak and the completion of the repairs is made within 15 calendar days, unless a delay of repair is allowed.
48 NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.482-7(f)(1-3) & 63.648(a)	If gas/vapor valve is determined to have no detectable emissions, it is exempt from monitoring. Demonstrate this status by instrument reading of 500 ppm or less initially and annually.	Record and maintain on file for review the data showing an instrument reading of 500 ppm or less, demonstrating initial and annual non-detectable emission status.
49 NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.482-7(g)(1-2) & 63.648(a)	If gas/vapor valve is determined to be unsafe-to-monitor, demonstrate danger and develop a written plan that requires monitoring the valve as frequently as practicable during safe-to-monitor times.	Maintain on file for review a written plan for "unsafe-to-monitor" valves for 5 years.
50 NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.482-7(h)(1-3) & 63.648(a)	If gas/vapor valve is determined to be difficult-to-monitor, demonstrate difficulty and develop a written plan that requires monitoring the valve at least once per year.	Maintain on file for review a written plan for "difficult-to-monitor" valves.
51 NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.482-8(a) & 63.648(a)	Monitor pumps and valves in HL service, PRDs in LL or HL service, flanges, and other connectors within 5 days if evidence of a potential leak is found by visual, audible, olfactory, or other methods.	Monitor equipment and record results using Method 21 as specified in 40 CFR 60.485(b) within 5 days of indication of potential leak by visual, audible, or olfactory methods.
52 NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.482-8(b-c) & 63.648(a)	If instrument reading of 10,000 ppm or greater is measured, a leak is detected. Make first attempt to repair leak at least 5 days after detection to be completed within 15 calendar days after detection.	Maintain records for 5 years, that demonstrate a first attempt at repair is made within 5 calendar days of detection of leak and the completion of the repairs is made within 15 calendar days, unless a delay of repair is allowed.



Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart GGG & MACT Subpart CC 53	40 CFR 60.482-9(a) & 63.648(a)	If delay of repair of equipment for which leaks have been detected, ensure that repair is technically infeasible without a process unit shutdown. Ensure that repair of this equipment occurs before end of next unit shutdown.	Maintain on file for review demonstration that a delay of repair is allowable and maintain a record of the repair.
NSPS Subpart GGG & MACT Subpart CC 54	40 CFR 60.482-9(c)(1-2) & 63.648(a)	If delay of repair for valves, demonstrate that emissions of purged material resulting from immediate repair are greater than fugitive emissions & when repair procedures are effected, purged material is collected & destroyed/recovered in control device.	Maintain on file for review demonstration that a delay of repair is allowable and maintain a record of the repair.
NSPS Subpart GGG & MACT Subpart CC 55	40 CFR 60.482-9(d)(1-2) & 63.648(a)	If delay of repair for pumps, ensure that repair requires use of dual mechanical seal system w/barrier fluid system and repair is completed as soon as practicable but not later than 6 months after leak detected.	Maintain records that demonstrate delayed repair of pumps included the use of dual mechanical seal system with barrier fluid and was completed within six months of leak detection.
NSPS Subpart GGG & MACT Subpart CC 56	40 CFR 60.483-2(a)(2) & 63.648(a)	If alternative standard for valves - skip period LDAR is used, notify the Administrator of this election before implementation of this alternative standard.	Maintain on file for review a copy of notifications made to the Administrator for 5 years unless otherwise specified in the referenced citation.
NSPS Subpart GGG & MACT Subpart CC 57	40 CFR 60.483-2(b)(1) & 63.648(a)	If alternative standard for valves - skip period LDAR is used, comply initially with the requirements for valves in gas/vapor service and in LL service.	Maintain on site for review required records for 5 years unless otherwise specified by the referenced citation.
NSPS Subpart GGG & MACT Subpart CC 58	40 CFR 60.483-2(b)(2) & 63.648(a)	If alternative standard for valves - skip period LDAR is used, after 2 consecutive quarterly leak detection periods with 2% or less valves leaking, skip 1 of the quarterly leak detection periods for valves in gas/vapor and LL service.	Maintain records of non-leaking status to demonstrate eligibility for reduced monitoring of valves.
NSPS Subpart GGG & MACT Subpart CC 59	40 CFR 60.483-2(b)(3) & 63.648(a)	If alternative standard for valves - skip period LDAR is used, after 5 consecutive quarterly leak detection periods with 2% or less valves leaking, skip 3 of the quarterly leak detection periods for valves in gas/vapor and LL service.	Maintain records of non-leaking status to demonstrate eligibility for reduced monitoring of valves.
NSPS Subpart GGG & MACT Subpart CC 60	40 CFR 60.483-2(b)(4) & 63.648(a)	If alternative standard for valves - skip period LDAR is used, if % leaking valves is greater than 2.0, must revert to normal monitoring requirements in 40 CFR 60.482-7 but can again use this alternative standard.	Maintain records of non-leaking status to demonstrate eligibility for reduced monitoring of valves.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart GGG & MACT Subpart CC 61	40 CFR 60.483-2(b)(5) & 63.648(a)	If alternative standard for valves - skip period LDAR is used, calculate % valves leaking by dividing the sum of valves found leaking during current monitoring and valves for which repair has been delayed by the total number of valves subject to standard.	Indicate on records the calculation of "% valves leaking" to demonstrate eligibility for reduced monitoring.
NSPS Subpart GGG & MACT Subpart CC 62	40 CFR 60.483-2(b)(6) & 63.648(a)	If alternative standard for valves - skip period LDAR is used, keep a record of the % of valves found leaking during each leak detection period.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
NSPS Subpart GGG & MACT Subpart CC 63	40 CFR 60.484(a) & 63.648(a)	If an equivalent means of emission limitation is used, ensure that it achieves a reduction in emissions of VOC at least equivalent to the reduction in VOC emissions from the controls required in this Subpart.	Maintain records to demonstrate that the required VOC emission reduction has been achieved in the event that an equivalent means of emission limitation is elected.
NSPS Subpart GGG & MACT Subpart CC 64	40 CFR 60.484(b-f) & 63.648(a)	If an equivalent means of emission limitation is used, collect and verify test data to demonstrate equivalence by means of emission limitation.	Maintain records to demonstrate that the required VOC emission reduction has been achieved in the event that an equivalent means of emission limitation is elected.
NSPS Subpart GGG & MACT Subpart CC 65	40 CFR 60.485(a&b) & 63.648(a)	In conducting the performance tests required in 40 CFR 60.8, use the reference methods and procedures in Appendix A of Part 60 and as specified in 40 CFR 60.485(b).	Maintain on file for review a copy of performance test results for 5 years unless otherwise specified in the referenced citation.
NSPS Subpart GGG & MACT Subpart CC 66	40 CFR 60.485(c) & 63.648(a)	The owner or operator shall determine compliance with the non-detectable emission standard as specified in specific sections of 40 CFR 60.482.	Monitor the specific source(s) initially and annually using Method 21. Record the instrument reading and maintain the records for 5 years.
NSPS Subpart GGG & MACT Subpart CC 67	40 CFR 60.485(d) & 63.648(a)	To demonstrate that a piece of equipment is not in VOC service, test the equipment according to the methods described in 40 CFR 60.485(d)(1-3).	Maintain for review a log of equipment not in VOC service and the method used to verify status.
NSPS Subpart GGG & MACT Subpart CC 68	40 CFR 60.485(e) & 63.648(a)	Demonstrate that a piece of equipment is in LL service by showing that the conditions specified in 40 CFR 60.485(e)(1-3) apply.	Maintain on file for review a record to demonstrate tight liquid service conditions as specified in the referenced citation.

Applicable Requirement	Citation	Process Unit Fugitive Emissions Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.485(g) & 63.648(a)	To determine compliance with the standards of flares, use Method 22 to determine visible emissions, use a thermocouple or other device to monitor presence of a pilot flame, and other tests as specified in 40 CFR 60.485(g)(1-7).	Monitor flare and record results in accordance with tests as specified in 40 CFR 60.485 (g)(1-7).
69			
NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.486(b)(1-3) & 63.648	When a leak is detected, attach a weatherproof and readily visible ID (marked w/equipment number) to component. Remove ID after repair complete. If a valve, remove ID after monitored for 2 successive months and no leak detected.	Document that components that are found to be leaking are visibly marked to indicate a leak.
70			
NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.486(c)(1-5) & 63.648(a)	For each leak detected, maintain a log of information for at least 5 years. Info to include instrument ID, equip ID, repair methods applied, "Above 10,900" if max reading is above 10,000 ppm, & other information specified in 40 CFR 60.486(c)(1-9).	Maintain a log of equipment leak information for at least 5 years.
71			
NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.486(d)(1-5) & 63.648(a)	For closed vent systems & control devices, maintain detailed schematics, design specs, P&IDs, dates & descriptions of changes in design specs, description of parameter(s) monitored, periods system not operated & dates startups/shutdowns of control device.	Maintain on file for review detailed schematics, P&IDs, and other design and operating data as specified in the referenced citation.
72			
NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.486(e)(1-5) & 63.648(a)	Maintain, for at least five years, a log of information pertaining to all equipment subject to the requirements of this regulation. Information required is outlined in 40 CFR 60.486(e)(1-5).	Maintain on file a log of information pertaining to all equipment in VOC service (or organic HAP service, as appropriate).
73			
NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.486(f)(1-2) & 63.648(a)	Maintain a list of ID numbers for all valves designated as unsafe-to-monitor, an explanation why, and plan for monitoring, and a list of all valves designated as difficult-to-monitor, explanation why, and schedule for monitoring.	Follow a written plan and maintain a log of data pertaining to all valves designated as unsafe and difficult to monitor.
74			
NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.486(g)(1-2) & 63.648(a)	If alternative standard for valves - skip period LDAR is used, record and maintain for at least 5 years, the schedule for monitoring and the % valves leaking during each period.	Maintain a schedule of monitoring and the percentage of leaking valves during each period for at least 5 years.
75			
NSPS Subpart GGG & MACT Subpart CC	40 CFR 60.486(h)(1-2) & 63.648(a)	For pumps in LL service and equipped with dual mechanical seals w/barrier fluid and sensor, maintain a record for at least 5 years of the design criterion required, the explanation of this criterion, and any changes to the criterion and reason for change.	Maintain a record of the criterion used to indicate failure or leak in the system for at least 5 years.
76			

Process Unit  
Fugitive Emissions

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart GGG & MACT Subpart CC 77	40 CFR 60.487(a-c) & 63.648(a)	Submit semiannual reports to the Administrator beginning 180 days after compliance date to include information outlined in 40 CFR 60.487(b)(1-4) & 60.487(c)(1-4).	Maintain on site for review a copy of reports/notifications submitted to the Administrator for 5 years.
NSPS Subpart GGG & MACT Subpart CC 78	40 CFR 60.487(e) & 63.648(a)	Notify the Administrator at least 30 days before initial performance testing.	Maintain on file for review a copy of notifications made to the Administrator for 5 years unless otherwise specified in the referenced citation.
NSPS Subpart GGG & MACT Subpart CC 79	40 CFR 60.487(e) & 63.648(a)	Report the results of all performance tests in accordance with 40 CFR 60.8.	Maintain on file for review a copy of performance test results for 5 years unless otherwise specified in the referenced citation.

Applicable Requirement	Citation	Process Unit Fugitive Emissions Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Equipment Leaks	40 CFR 63.641	Since the unit is subject to the Refinery MACT rule for Equipment Leaks, the requirements outlined in this table apply to all equipment in organic HAP service (i.e. contacts or contains a fluid that is at least 5% by weight of total organic HAP).	Maintain on site for review required records for 5 years unless otherwise specified by the referenced citation.
80			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a)	Compliance with this MACT rule will be demonstrated by compliance with NSPS Subpart VV as specified in 40 CFR 63.648 and outlined in this table.	Maintain on site for review required records for 5 years unless otherwise specified by the referenced citation.
81			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.482-2(a)(1)	Monitor monthly each pump in LL service (unless equipped w/dual mechanical seal system). A leak is detected by a reading of 10,000 ppm or greater.	Monitor monthly, each pump in light liquid service not equipped with a dual mechanical seal, using Method 21 as specified in 40 CFR 60.485(b). Maintain leak detection records on file for 5 years or as specified in the referenced citation.
82			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.482-2(a)(2)	Visually inspect each pump in LL service weekly for indications of liquids dripping from the pump seal (unless equipped w/dual mechanical seal system). A leak is detected if liquid is noted dripping from the pump seal.	Visually inspect on a weekly basis, each pump in light liquid service not equipped with a mechanical seal system. Maintain leak detection records on file for 5 years unless otherwise specified in the referenced citation.
83			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.482-2(c)(1-2)	Repair any leak detected from the pump as soon as practicable but no later than 15 calendar days after detection. First attempt shall be made not later than 5 calendar days after detection.	Maintain records for 5 years, that demonstrate a first attempt at repair is made within 5 calendar days of detection of leak and the completion of the repairs is made within 15 calendar days, unless a delay of repair is allowed.
84			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.482-2(d)(1)(i-iii)	For each pump equipped w/dual mechanical seal system, ensure it operates w/barrier fluid pressure > pump stuffing box pressure or equip w/barrier fluid degassing reservoir or equip w/system to purge barrier fluid into process stream w/no VOC emissions.	Maintain records for 5 years that demonstrate equipment is operated at the specified pressure, or is equipped with a system as specified in the referenced citation.
85			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.482-2(d)(2)	For each pump equipped w/dual mechanical seal system, ensure that the barrier fluid system is not in VOC service or is in heavy liquid service.	Facility shall maintain records to demonstrate that the barrier fluid system is operating in heavy liquid service or is not in VOC service.
86			

Applicable Requirement	Citation	Process Unit Fugitive Emissions Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.482-2(d)(3)	For each pump equipped w/dual mechanical seal system, ensure that each barrier fluid system is equipped w/sensor to detect failure of seal system, barrier fluid system, or both.	Maintain records that demonstrate equipment has a sensor to detect failure of the seal system, barrier fluid system, or both.
87			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.482-2(d)(4)	For each pump equipped w/dual mechanical seal system, visually inspect pump each calendar week for indications of liquids dripping from the pump seals.	Maintain records that demonstrate each pump equipped with a dual mechanical seal system is inspected weekly for indications of dripping liquids.
88			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.482-2(d)(5)(i)	For each pump equipped w/dual mechanical seal system and barrier fluid sensor, check daily the sensor or ensure that sensor is equipped with an audible alarm.	Maintain records that demonstrate the sensors on the barrier fluid systems are equipped with an audible alarm or check the sensor daily and record the observations.
89			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.482-2(d)(5)(ii)	For each pump equipped w/dual mechanical seal system and barrier fluid sensor, establish a criterion that indicates failure of the seal system, barrier fluid system, or both.	Maintain records that demonstrate the standard operating procedure for equipment include the criterion that indicates failure of the seal system, barrier fluid system, or both.
90			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.482-2(d)(6)(i-iii)	For leaks detected from pumps equipped w/dual mechanical seal system, attempt repair within 5 calendar days of detection and complete within 15 days.	Maintain records for 5 years, that demonstrate a first attempt at repair is made within 5 calendar days of detection of leak and the completion of the repairs is made within 15 calendar days, unless a delay of repair is allowed.
91			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.482-2(e)(1-3)	If a pump is determined to have no detectable emissions, it is exempt from monitoring. Demonstrate this status by instrument reading of 500 ppm or less initially and annually.	Record and maintain on file for review the data showing an instrument reading of 500 ppm or less, demonstrating initial and annual non-detectable emission status.
92			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.482-2(f)	If pump is equipped with a closed vent system, it is exempt from monitoring. Ensure that CVS is capable of capturing and transporting any leakage from the seal(s) to a control device that complies with 40 CFR 60.482-10.	Maintain records that demonstrate the closed vent system will comply with the control requirements as outlined in this table and specified in 40 CFR 60.482-10.
93			

Process Unit  
Fugitive Emissions  
Operating Limitation Or Condition

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.482-3(a)	Equip each compressor with a seal system that includes a barrier fluid system and that prevents leakage of VOC to the atmosphere.	Maintain records that demonstrate compressors are equipped with a barrier fluid seal system to prevent leaking of VOC to the atmosphere.
94			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.482-3(b)(1-3)	Ensure that each compressor seal system is operated w/barrier fluid pressure > stuffing box pressure or equip w/barrier fluid system that is connected to CVS, or equip w/system to purge barrier fluid into processes stream w/no VOC emissions to atm.	Maintain records for 5 years that demonstrate equipment is operated at the specified pressure, or is equipped with a system as specified in the referenced citation.
95			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.482-3(c)	Ensure that the barrier fluid system for the compressor is in heavy liquid service or not in VOC service.	Facility shall maintain records to demonstrate that the barrier fluid system is operating in heavy liquid service or is not in VOC service.
96			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.482-3(d)	Ensure that the barrier fluid system on each compressor is equipped with a sensor that will detect failure of the seal system, barrier fluid system, or both.	Maintain records that demonstrate equipment has a sensor to detect failure of the seal system, barrier fluid system, or both.
97			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.482-3(e)(1)	For each compressor and barrier fluid system equipped w/sensor, check daily the sensor or equip with an audible alarm.	Maintain records that demonstrate the sensors on the barrier fluid systems are equipped with an audible alarm or check the sensor daily and record the observations.
98			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.482-3(e)(2)	For each compressor and barrier fluid system, establish a criterion that indicates failure of the seal system, barrier fluid system, or both.	Maintain records that demonstrate the standard operating procedure for equipment include the criterion that indicates failure of the seal system, barrier fluid system, or both.
99			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.482-3(g)(1-2)	Repair any leak detected from the compressor as soon as practicable but no later than 15 calendar days after detection. First attempt shall be made not later than 5 calendar days after detection.	Maintain records for 5 years, that demonstrate a first attempt at repair is made within 5 calendar days of detection of leak and the completion of the repairs is made within 15 calendar days, unless a delay of repair is allowed.

100

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Equipment Leaks 101	40 CFR 63.648(a) & 60.482-3(h)	If compressor is equipped with a closed vent system, it is exempt from monitoring. Ensure that CVS is capable of capturing and transporting any leakage from the seal(s) to a control device that complies with 40 CFR 60.482-10.	Maintain records that demonstrate the closed vent system will comply with the control requirements as outlined in this table and specified in 40 CFR 60.482-10.
MACT Subpart CC - Equipment Leaks 102	40 CFR 63.648(a) & 60.482-3(i)(1-2)	If compressor is determined to have no detectable emissions, it is exempt from monitoring. Demonstrate this status by instrument reading of 500 ppm or less initially and annually.	Monitor the compressor initially and annually using Reference Method 21. Record the instrument reading and maintain the records for 5 years.
MACT Subpart CC - Equipment Leaks 103	40 CFR 63.648(a) & 60.482-3(j)	If an existing compressor becomes affected under 40 CFR 60.14 or 60.15, it is exempt from all provisions for compressors. Demonstrate that recasting the distance piece or replacing compressor are the only options to achieve compliance.	Maintain on file, a record of demonstration for 5 years unless otherwise specified in the referenced citation.
MACT Subpart CC - Equipment Leaks 104	40 CFR 63.648(a) & 60.482-4(a)	Operate pressure relief device (PRD) with no detectable emissions (<500 ppm) except during pressure releases.	Monitor pressure relief devices and maintain records to demonstrate no detectable emissions (<500 ppm) as soon as practicable, and if practicable, after the release.
MACT Subpart CC - Equipment Leaks 105	40 CFR 63.648(a) & 60.482-4(b)(1)	Ensure that PRD returns to condition of no detectable emissions after each pressure release as soon as practicable but no later than 5 calendar days after release.	Monitor pressure relief devices and maintain records to demonstrate no detectable emissions (<500 ppm) as soon as practicable, and if practicable, after the release.
MACT Subpart CC - Equipment Leaks 106	40 CFR 63.648(a) & 60.482-4(b)(2)	After pressure release of PRD (no later than 5 calendar days), monitor to confirm conditions of no detectable emissions.	Monitor pressure relief devices and maintain records to demonstrate no detectable emissions (<500 ppm) as soon as practicable, and if practicable, after the release.
MACT Subpart CC - Equipment Leaks 107	40 CFR 63.648(a) & 60.482-4(c)	If PRD is equipped with a closed vent system, it is exempt from monitoring. Ensure that CVS is capable of capturing and transporting any leakage from the seal(s) to a control device that complies with 40 CFR 60.482-10.	Source(s) meets applicability. Therefore, compliance is presumed.
MACT Subpart CC - Equipment Leaks 108	40 CFR 63.648(a) & 60.482-5(a)	Equip each sampling connection system with a closed purge system or closed vent system (CVS).	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.



Applicable Requirement	Citation	Process Unit Fugitive Emissions Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Equipment Leaks 109	40 CFR 63.648(a) & 60.482-5(b)(1-3)	Ensure each closed purge system on sampling collection systems returns purged fluid directly to process w/no VOC emissions or collects & recycles purge fluid w/no VOC emissions or is designed/operated to capture & transport purged fluid to control device.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
MACT Subpart CC - Equipment Leaks 110	40 CFR 63.648(a) & 60.482-5(c)	In-situ sampling systems and sampling systems without purges are exempt from 40 CFR 60.482-5(a) & (b) requirements.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
MACT Subpart CC - Equipment Leaks 111	40 CFR 63.648(a) & 60.482-6(a)(1)	Equip each open-ended valve or line with cap, blind flange, plug, or second valve.	Maintain records that demonstrate open-ended valves and lines are capped, plugged, or equipped with blind flange or second valve as appropriate.
MACT Subpart CC - Equipment Leaks 112	40 CFR 63.648(a) & 60.482-6(a)(2)	Ensure that the cap, blind flange, plug, or second valve on open-ended valve or line seals the open end at all times except during operations requiring fluid flow through open-ended valve or line.	Perform monthly visual inspection of open-ended valves and lines to ensure caps or plugs are in place and operate properly.
MACT Subpart CC - Equipment Leaks 113	40 CFR 63.648(a) & 60.482-6(b)	Ensure that each open-ended valve or line that is equipped with a second valve is operated in a manner such that the valve on the process fluid end is closed before the second valve is closed.	Perform monthly visual inspection of open-ended valves and lines to ensure caps or plugs are in place and operate properly.
MACT Subpart CC - Equipment Leaks 114	40 CFR 63.648(a) & 60.482-7(a-b)	Monitor each valve in gas/vapor service monthly to detect leaks. A leak is an instrument reading of 10,000 ppm or greater.	Monitor on a monthly basis, valves in gas/vapor service using Method 21 as specified in 40 CFR 60.485(b) and maintain leak detection records on file for review.
MACT Subpart CC - Equipment Leaks 115	40 CFR 63.648(a) & 60.482-7(c)(1)	Reduce monitoring of any gas/vapor valve for which a leak is not detected for 2 successive months to quarterly until leak is detected.	Maintain records of non-leaking status to demonstrate eligibility for reduced monitoring of valves.
MACT Subpart CC - Equipment Leaks 116	40 CFR 63.648(a) & 60.482-7(c)(2)	For any gas/vapor valve which was being monitored at a reduced frequency and for which a leak is detected, monitor monthly until leak not detected for 2 successive months.	Maintain records of non-leaking status to demonstrate eligibility for reduced monitoring of valves.

Applicable Requirement	Citation	Process Unit Fugitive Emissions Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.482-7(d)(1-2)	Repair any leak detected from the gas/vapor valve as soon as practicable but no later than 15 calendar days after detection. First attempt shall be made not later than 5 calendar days after detection.	Maintain records for 5 years, that demonstrate a first attempt at repair is made within 5 calendar days of detection of leak and the completion of the repairs is made within 15 calendar days, unless a delay of repair is allowed.
117			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.482-7(d)(1-3)	If gas/vapor valve is determined to have no detectable emissions, it is exempt from monitoring. Demonstrate this status by instrument reading of 500 ppm or less initially and annually.	Record and maintain on file for review the data showing an instrument reading of 500 ppm or less, demonstrating initial and annual non-detectable emission status.
118			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.482-7(g)(1-2)	If gas/vapor valve is determined to be unsafe-to-monitor, demonstrate danger and develop a written plan that requires monitoring the valve as frequently as practicable during safe-to-monitor times.	Maintain on file for review a written plan for "unsafe-to-monitor" valves for 5 years.
119			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.482-7(h)(1-3)	If gas/vapor valve is determined to be difficult-to-monitor, demonstrate difficulty and develop a written plan that requires monitoring the valve at least once per year.	Maintain on file for review a written plan for "difficult-to-monitor" valves.
120			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.482-8(a)	Monitor pumps and valves in HL service, PRDs in LL or HL service, flanges, and other connectors within 5 days if evidence of a potential leak is found by visual, audible, olfactory, or other methods.	Monitor equipment and record results using Method 21 as specified in 40 CFR 60.485(b) within 5 days of indication of potential leak by visual, audible, or olfactory methods.
121			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.482-8(b-c)	If instrument reading of 10,000 ppm or greater is measured, a leak is detected. Make first attempt to repair leak at least 5 days after detection to be completed within 15 calendar days after detection.	Maintain records for 5 years, that demonstrate a first attempt at repair is made within 5 calendar days of detection of leak and the completion of the repairs is made within 15 calendar days, unless a delay of repair is allowed.
122			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.482-9(a)	If delay of repair of equipment for which leaks have been detected, ensure that repair is technically infeasible without a process unit shutdown. Ensure that repair of this equipment occurs before end of next unit shutdown.	Maintain on file for review demonstration that a delay of repair is allowable and maintain a record of the repair.
123			

Applicable Requirement	Citation	Process Unit Fugitive Emissions Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.482-9(c)(1-2)	If delay of repair for valves, demonstrate that emissions of purged material resulting from immediate repair are greater than fugitive emissions & when repair procedures are effected, purged material is collected & destroyed/recovered in control device.	Maintain on file for review demonstration that a delay of repair is allowable and maintain a record of the repair.
124			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.482-9(d)(1-2)	If delay of repair for pumps, ensure that repair requires use of dual mechanical seal system w/barrier fluid system and repair is completed as soon as practicable but not later than 6 months after leak detected.	Maintain records that demonstrate delayed repair of pumps included the use of dual mechanical seal system with barrier fluid and was completed within six months of leak detection.
125			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.483-2(a)(2)	If alternative standard for valves - skip period LDAR is used, notify the Administrator of this election before implementation of this alternative standard.	Maintain on file for review a copy of notifications made to the Administrator for 5 years unless otherwise specified in the referenced citation.
126			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.483-2(b)(1)	If alternative standard for valves - skip period LDAR is used, comply initially with the requirements for valves in gas/vapor service and in LL service.	Maintain on site for review required records for 5 years unless otherwise specified by the referenced citation.
127			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.483-2(b)(2)	If alternative standard for valves - skip period LDAR is used, after 2 consecutive quarterly leak detection periods with 2% or less valves leaking, skip 1 of the quarterly leak detection periods for valves in gas/vapor and LL service.	Maintain records of non-leaking status to demonstrate eligibility for reduced monitoring of valves.
128			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.483-2(b)(3)	If alternative standard for valves - skip period LDAR is used, after 5 consecutive quarterly leak detection periods with 2% or less valves leaking, skip 3 of the quarterly leak detection periods for valves in gas/vapor and LL service.	Maintain records of non-leaking status to demonstrate eligibility for reduced monitoring of valves.
129			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.483-2(b)(4)	If alternative standard for valves - skip period LDAR is used, if % leaking valves is greater than 2.0, must revert to normal monitoring requirements in 40 CFR 60.482-7 but can again use this alternative standard.	Maintain records of non-leaking status to demonstrate eligibility for reduced monitoring of valves.
130			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.483-2(b)(5)	If alternative standard for valves - skip period LDAR is used, calculate % valves leaking by dividing the sum of valves found leaking during current monitoring and valves for which repair has been delayed by the total number of valves subject to standard.	Indicate on records the calculation of "% valves leaking" to demonstrate eligibility for reduced monitoring.
131			

Applicable Requirement	Citation	Process Unit Fugitive Emissions Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.483-2(b)(6)	If alternative standard for valves - skip period LDAR is used, keep a record of the % of valves found leaking during each leak detection period.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
132			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.484(a)	If an equivalent means of emission limitation is used, ensure that it achieves a reduction in emissions of VOC at least equivalent to the reduction in VOC emissions from the controls required in this Subpart.	Maintain records to demonstrate that the required VOC emission reduction has been achieved in the event that an equivalent means of emission limitation is elected.
133			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.484(b-d)	If an equivalent means of emission limitation is used, collect and verify test data to demonstrate equivalence by means of emission limitation.	Maintain records to demonstrate that the required VOC emission reduction has been achieved in the event that an equivalent means of emission limitation is elected.
134			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.485(a-b)	In conducting the performance tests required in 40 CFR 60.8, use the reference methods and procedures in Appendix A of Part 60 and as specified in 40 CFR 60.485(b)	Maintain on file for review a copy of performance test results for 5 years unless otherwise specified in the referenced citation.
135			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.485(c)	The owner or operator shall determine compliance with the non-detectable emission standard as specified in specific sections of 40 CFR 60.482.	Monitor the specific source(s) initially and annually using Method 21. Record the instrument reading and maintain the records for 5 years.
136			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.485(d)	To demonstrate that a piece of equipment is not in VOC service, test the equipment according to the methods described in 40 CFR 60.485(d)(1-3).	Maintain on file for review a record of the conditions met to demonstrate VOC service.
137			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.485(e)	Demonstrate that a piece of equipment is in LL service by showing that the conditions specified in 40 CFR 60.485(e)(1-3) apply.	Maintain on file for review a record to demonstrate light liquid service conditions as specified in the referenced citation.
138			

Applicable Requirement	Citation	Process Unit Fugitive Emissions Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.485(g)	To determine compliance with the standards of flares, use Method 22 to determine visible emissions, use a thermocouple or other device to monitor presence of a pilot flame, and other tests as specified in 40 CFR 60.485(g)(1-7).	Document that visible emissions determination for the initial performance test will be accomplished using EPA referenced method. The presence of a flame will be monitored using a fire eye or other device in accordance with 40 CFR 60.485(g)(1-7).
139			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.486(b)(1-3)	When a leak is detected, attach a weatherproof and readily visible ID (marked w/equipment number) to component. Remove ID after repair complete. If a valve, remove ID after monitored for 2 successive months and no leak detected.	Document that components that are found to be leaking are visibly marked to indicate a leak.
140			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.486(c)(1-9)	For leaks detected, maintain log of information at least 5 years. Info to include instrument ID, equip ID, repair methods applied. "Above 10,000" if max reading is above 10,000 ppm, & other information specified in 40 CFR 60.486(c)(1-9).	Follow a written plan and maintain a log of equipment leak information for at least 5 years.
141			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.486(d)(1-5)	For closed vent systems & control devices, maintain detailed schematics, design specs, P&IDs, dates & descriptions of changes in design specs, description of parameter(s) monitored, periods system not operated & dates startups/shutdowns of control device.	Maintain on file for review detailed schematics, P&IDs, and other design and operating data as specified in the referenced citation.
142			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.486(e)(1-5)	Maintain, for at least 5 years, a log of information pertaining to all equipment subject to the requirements of this regulation. Information required is outlined in 40 CFR 60.486(e)(1-5).	Maintain on file a log of information pertaining to all equipment in VOC service (or organic HAP service, as appropriate).
143			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.486(f)(1-2)	Maintain a list of ID numbers for all valves designated as unsafe-to-monitor, an explanation why, and plan for monitoring, and a list of all valves designated as difficult-to-monitor, explanation why, and schedule for monitoring.	Follow a written plan and maintain a log of data pertaining to all valves designated as unsafe and difficult to monitor.
144			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.486(g)(1-2)	If alternative standard for valves - skip period LDAR is used, record and maintain for at least 5 years, the schedule for monitoring and the % valves leaking during each period.	Maintain a schedule of monitoring and the percentage of leaking valves during each period for at least 5 years.
145			

Applicable Requirement	Citation	Process Unit Fugitive Emissions Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.486(h)(1-2)	For pumps in LL service and equipped with dual mechanical seals w/barrier fluid and sensor, maintain a record for at least 5 years of the design criterion required, the explanation of this criterion, and any changes to the criterion and reason for change.	Maintain a record of the criterion used to indicate failure or leak in the system for at least 5 years.
146			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.487(e)	Notify the Administrator at least 30 days before initial performance testing.	Maintain on file for review a copy of notifications made to the Administrator for 5 years unless otherwise specified in the referenced citation.
147			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(a) & 60.487(e)	Report the results of all performance tests in accordance with 40 CFR 60.8.	Maintain on file for review a copy of performance test results for 5 years unless otherwise specified in the referenced citation.
148			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(e), 60.487(b)(1-4) & 63.654(d)(2)	Submit semiannual reports to the Administrator within 150 days of compliance date to include information outlined in 40 CFR 60.487(b)(1-4).	Maintain on site for review a copy of reports/notifications submitted to the Administrator for 5 years unless otherwise specified in the referenced citation.
149			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(b)(1-2)	If monitoring data generated before 8-18-95 is used to qualify for less frequent monitoring of valves and pumps, it must meet the test methods and procedures specified in 40 CFR 63.648 (b)(1-2).	Maintain for review a record of the test methods and procedures, for data generated before 8/18/95 (if used to qualify for less frequent monitoring of valves/pumps).
150			
MACT Subpart CC - Equipment Leaks	40 CFR 63.648(g)	If compressor is in hydrogen service, it is exempt from the requirements of this rule. Demonstrate that compressor is in hydrogen service according to guidelines in 40 CFR 63.648 (g)(1-2).	Maintain on file for review a record of the criterion used to establish that a compressor is in hydrogen service.
151			
MACT Subpart CC - Equipment Leaks	40 CFR 63.654 (d)(3)	If a compressor is determined to be in hydrogen service, maintain a record of the demonstration used to make this determination.	Maintain on file for review a record of the criterion used to establish that a compressor is in hydrogen service.
152			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KAR - Opacity	KAR 28-19-31(b)(1)	A person shall not cause or permit visible contaminant emissions from any indirect heating equipment which equals or exceeds 40% opacity.	Maintain records that demonstrate this source is in clean fuel service. Compliance is presumed by using refinery fuel gas and/or natural gas as a fuel.

153

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KAR-Opacity	KAR 28-19-650(a)(2)	No person shall cause or permit visible contaminant emissions from the processing of any materials or other use of any process which equals or exceeds opacity of 40%.	Maintain records when opacity from the source is in above 40% limit. Compliance with this regulation is presumed during normal operations.



Applicable Requirement	Citation	Process Unit Waste Water Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart QQQ	40 CFR 60.692-2(a)(1)	Equip each individual drain system with water seal controls.	Maintain records that demonstrate liquid/water seal controls, in accordance with KDHE letter of agreement dated October 6, 1999 Attachment E, are in place for each regulated drain system.
155 NSPS Subpart QQQ	40 CFR 60.692-2(a)(2)	Visually or physically inspect each active service drain initially and monthly for indications of low water levels or other conditions that would reduce the effectiveness of the water seal controls.	Document initial and monthly inspections to indicate condition of liquid/water (KDHE approved) seal controls.
156 NSPS Subpart QQQ	40 CFR 60.692-2(a)(4)	If desired, an alternative to inspecting out-of-active service drains is to install a tightly sealed cap or plug over a drain that is out of service and inspect initially and semiannually to ensure caps/plugs are in place and properly installed.	Maintain records of initial and semiannual inspections of out-of-active service drains, indicating the condition of the caps and plugs.
157 NSPS Subpart QQQ	40 CFR 60.692-2(a)(5)	Whenever low water levels, or missing or improperly installed caps/plugs are identified, water shall be added or first efforts at repair shall be made as soon as practicable but not later than 24 hours after detection unless delay of repair is allowed.	Maintain on file a record of the date, time and location of the identified problem, and the date of corrective action for 5 years.
158 NSPS Subpart QQQ	40 CFR 60.692-2(b)(1)	Equip all junction boxes with a cover. If also equipped with a vent pipe, ensure that vent pipe is at least 3 ft in length and does not exceed 4 inches in diameter.	Maintain records of design schematics for junction boxes and sizes of vent pipes, if present.
159 NSPS Subpart QQQ	40 CFR 60.692-2(b)(2)	Ensure that junction box covers have a tight seal around the edge and are kept in place at all times except during inspection and maintenance.	Maintain records that demonstrate junction boxes are visually inspected semiannually to ensure that cover is in place and has a tight seal.
160 NSPS Subpart QQQ	40 CFR 60.692-2(b)(3)	Visually inspect all junction boxes initially and semiannually to ensure that the cover is in place and has a tight seal around the edge.	Document initial and semiannual inspections to indicate condition of junction boxes, covers, and seals.
161			

Process Unit  
Waste Water

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
162	NSPS Subpart QQQ	40 CFR 60.692-2(b)(4)	If a broken seal or gap is identified in a junction box or cover, first effort at repair shall be made as soon as practicable, but not later than 15 calendar days after the broken seal or gap is identified.
163	NSPS Subpart QQQ	40 CFR 60.692-2(c)(1)	Ensure that sewer lines are not open to the atmosphere and are covered or enclosed in such a manner so as to have no visual gaps or cracks in joints, seals, or other emission interfaces.
164	NSPS Subpart QQQ	40 CFR 60.692-2(c)(2)	Visually inspect the portion of each unburred sewer line for indication of cracks, gaps, or other problems that could result in VOC emissions initially and semiannually thereafter.
165	NSPS Subpart QQQ	40 CFR 60.692-2(c)(3)	Whenever cracks, gaps, or other problems are detected, repairs shall be made as soon as practicable, but not later than 15 calendar days after identification unless delay of repair is allowed.
166	NSPS Subpart QQQ	40 CFR 60.692-2(e)	Ensure the refinery wastewater routed through new process drains and a new first common downstream junction box is not routed through a downstream catch basin.
167	NSPS Subpart QQQ	40 CFR 60.692-3(a)	Equip each oil-water separator tank, reclaimed oil tank, storage vessel, or other auxiliary equipment with a fixed roof.
168	NSPS Subpart QQQ	40 CFR 60.692-3(a)(1)	Ensure that the fixed roof installed on each oil-water separator tank, or other auxiliary equipment, shall be installed to completely cover the equipment with no separation between the roof and the wall.
169	NSPS Subpart QQQ	40 CFR 60.692-3(a)(2)	Ensure that the vapor space under a fixed roof for an oil-water separator tank, or other auxiliary equipment, is not purged unless the vapor is directed to a control device.

Process Unit  
Waste Water

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart QQQ	40 CFR 60.692-3(a)(3)	Ensure that the fixed roof for an oil-water separator, or other auxiliary equipment, has access doors or openings that are latched and kept closed at all times during operation except during inspection and maintenance.	Perform semiannual inspections of the access doors and openings to ensure that they are latched closed except during inspection and maintenance. Maintain records for 5 years unless otherwise specified in the referenced citation.
170			
NSPS Subpart QQQ	40 CFR 60.692-3(a)(4)	Visually inspect roof seals, access doors & other openings in fixed roof of oil-water separator tank, or other auxiliary equipment, initially & semiannually to ensure that no cracks or gaps occur between the roof & wall & openings are closed & gasketed.	Document initial and semiannual inspections to indicate presence of gaps between roof and wall, and whether openings are closed and gasketed.
171			
NSPS Subpart QQQ	40 CFR 60.692-3(a)(5)	When a broken seal or gasket or other problem is identified with the fixed roof for an oil-water separator tank, or other auxiliary equipment, repair as soon as practicable but not later than 15 calendar days after problem identified.	Maintain on file a record of the date, time and location of the identified problem, and the date of corrective action for 5 years.
172			
NSPS Subpart QQQ	40 CFR 60.692-3(b)	Equip each oil-water separator tank or auxiliary equipment with a design capacity to treat more than 250 gpm wastewater with a closed vent system and control device unless exemption applies.	Maintain records that demonstrate the API oil-water separator is equipped with a closed vent system and a ground flare.
173			
NSPS Subpart QQQ	40 CFR 60.692-3(d)	Ensure that reclaimed oil from an oil-water separator tank and oily wastewater from reclaimed oil handling equipment is collected, stored, transported, recycled, reused, or disposed of in an enclosed system.	Maintain records that demonstrate the slop oil handling system is enclosed.
174			
NSPS Subpart QQQ	40 CFR 60.692-3(e)	Ensure that all equipment used in handling reclaimed oil is equipped with a fixed roof meeting the requirements of 40 CFR 60.692-3 (a).	Maintain records that demonstrate the slop oil handling system is equipped with a fixed roof.
175			
NSPS Subpart QQQ	40 CFR 60.692-5(c)	Ensure that any flare used to comply with this Subpart comply with the requirements of 40 CFR 60.18.	Maintain records that demonstrate the flare will comply with 40 CFR 60.18.
176			
NSPS Subpart QQQ	40 CFR 60.692-5(d)	Ensure that all closed vent systems and control devices used to comply with this Subpart are operated at all times when emissions may be vented to them.	The wastewater treatment control device is equipped with a CMS to detect a pilot flame at all times when vented to it. Malfunction, leaks, or repairs are recorded.
177			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
178	NSPS Subpart QQQ	40 CFR 60.692-5(e)(1)	Ensure that all closed vent systems used to comply with this Subpart are designed and operated with no detectable emissions, as indicated by an instrument reading of less than 500 ppm above background initially and semiannually.
179	NSPS Subpart QQQ	40 CFR 60.692-5(e)(2)	Ensure that all closed vent systems used to comply with this subpart are purged to direct vapor to the control device.
180	NSPS Subpart QQQ	40 CFR 60.692-5(e)(3)	For control devices used to comply with this Subpart, equip a flow indicator on the vent stream to the control device to ensure that the vapors are being routed to the device.
181	NSPS Subpart QQQ	40 CFR 60.692-5(e)(4)	Ensure that all gauging and sampling devices on the closed vent system are gas-tight except when gauging is taking place.
182	NSPS Subpart QQQ	40 CFR 60.692-5(e)(5)	When emissions from a closed vent system are detected, first efforts at repair to eliminate the emissions shall be made as soon as practicable but not later than 30 calendar days from the date the emissions are detected.
183	NSPS Subpart QQQ	40 CFR 60.692-6(a)	Ensure that any delay of repair of facilities is because the repair is technically impossible without a complete or partial refinery or process unit shutdown.
184	NSPS Subpart QQQ	40 CFR 60.692-6(b)	Ensure that any repair that has been delayed is completed before the end of the next refinery or process unit shutdown.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart QQQ	40 CFR 60.692-7(a)	Ensure that any delay of compliance is because compliance with the provisions cannot be achieved without a refinery or process unit shutdown.	Maintain a record to document the reason for any delay of repair and the signature of the person deciding that the repair must await a process unit shutdown to complete the repair.
185			
NSPS Subpart QQQ	40 CFR 60.692-7(b)	Ensure that installation of equipment necessary to comply with the provisions of this Subpart and for which compliance has been delayed shall occur no later than the next scheduled refinery or process unit shutdown.	Maintain a record to document the date of successful repair before the end of the next refinery or process unit shutdown.
186			
NSPS Subpart QQQ	40 CFR 60.693-2(a)(1)	Each floating roof shall be equipped with a primary seal and a secondary seal closure device between the wall of the tank and roof's edge.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
187			
NSPS Subpart QQQ	40 CFR 60.693-2(a)(1)(i)	The primary seal shall be a liquid-mounted or mechanical shoe seal. The gap width between the seal and the tank wall shall not exceed 1.5" at any point. The total gap area shall not exceed 3.2 sq inches per foot.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
188			
NSPS Subpart QQQ	40 CFR 60.693-2(a)(1)(ii)	The secondary seal shall be above the primary seal and cover the annular space between the floating roof and the wall of the tank. The gap width shall not exceed 0.5" at any point. The total gap area shall not exceed 0.32 sq inches per foot.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
189			
NSPS Subpart QQQ	40 CFR 60.693-2(a)(1)(iii)	The gap width & area shall be determined by the methods & procedures specified in 40 CFR 60.696(d). Perform seal gap measurement within 60 calendar days after installation and once/five years for primary and once/one year for secondary seals thereafter.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
190			
NSPS Subpart QQQ	40 CFR 60.693-2(a)(1)(iv)	Make necessary repairs within 30 calendar days of identification of seals not meeting the requirements.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
191			

Process Unit  
Waste Water

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart QQQ	40 CFR 60.693-2(a)(2)	Except as provide in paragraph (a)(4) of this section, each opening in the roof shall be equipped with a gasketed cover, seal, or lid, which shall be maintained in a closed position at all times, except during inspection and maintenance.	Perform routine visual inspections of access doors and openings to ensure that they are latched closed except during inspection and maintenance. Maintain records on site for review.
192			
NSPS Subpart QQQ	40 CFR 60.693-2(a)(3)	The roof shall be floating on the liquid (i.e., off the roof supports) at all times except during abnormal conditions (i.e., low inventory).	Maintain records that verify that the liquid is at a level which ensures the roof is floating at all times except during abnormal conditions.
193			
NSPS Subpart QQQ	40 CFR 60.693-2(a)(4)	Equip each emergency roof drain on floating roof with a slotted membrane fabric cover that covers at least 90% of the drain opening area or a flexible fabric sieve seal.	Maintain records that demonstrate the roof drain is equipped with a slotted membrane fabric that covers at least 90% of the open area.
194			
NSPS Subpart QQQ	40 CFR 60.693-2(a)(5)	Doors and other openings shall be visually inspected initially/semiannually to ensure a tight fit. When a problem is identified, repair as soon as practicable, but not later than 30 calendar days, except as provided in 40 CFR 60.692-6.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
195			
NSPS Subpart QQQ	40 CFR 60.693-2(b)	Report to the Administrator that the floating roof alternative was selected as required by 40 CFR 60.7.	Maintain copies of notifications to the Administrator on site for at least 5 years from date of notification.
196			
NSPS Subpart QQQ	40 CFR 60.695(a)	Install, calibrate, maintain, and operate according to manufacturer's specifications the selected control equipment unless alternative monitoring procedures or requirements are approved by the Administrator.	Maintain records to document the ground flare on the API oil-water separator, is installed, calibrated, and maintained according to the manufacturer's specifications.
197			
NSPS Subpart QQQ	40 CFR 60.695(a)(4)	Where the flare is used for VOC emission reduction, comply with the monitoring requirements of 40 CFR 60.18 (f)(2).	Maintain records that demonstrate the flare will comply with 40 CFR 60.18.
198			
NSPS Subpart QQQ	40 CFR 60.696(a)	Before using any equipment installed in compliance with the requirements of this Subpart, inspect such equipment for indication of potential emissions, defects, or other problems that may cause the requirements of this Subpart not to be met.	Maintain applicable records that demonstrate equipment used in the wastewater treatment system was inspected in accordance with the referenced citation.
199			

Applicable Requirement	Citation	Process Unit Waste Water Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart QQQ 200	40 CFR 60.696(c)	Conduct a performance test initially and at other times as requested by the Administrator using the test methods and procedures in 40 CFR 60.18 (f).	Maintain a copy of the performance test report on site for 5 years unless otherwise specified in the referenced citation.
NSPS Subpart QQQ 201	40 CFR 60.697(a)	Maintain all records required by this Subpart for a minimum of 5 years after being recorded unless otherwise noted.	Maintain all records for a minimum of 5 years.
NSPS Subpart QQQ 202	40 CFR 60.697(b)(1)	Record the location, date, and corrective action for each drain when water seal is dry or otherwise breached, when a cap/plug is missing or improperly installed, or other problem is identified that could result in VOC emissions.	Maintain all records for a minimum of 5 years.
NSPS Subpart QQQ 203	40 CFR 60.697(b)(2)	Record the location, date, and corrective action for inspections of junction boxes when a problem is identified that could result in VOC emissions.	Maintain all records for a minimum of 5 years.
NSPS Subpart QQQ 204	40 CFR 60.697(b)(3)	Record the location, date, and corrective action for inspections of sewer lines when a problem is identified that could result in VOC emissions.	Maintain all records for a minimum of 5 years.
NSPS Subpart QQQ 205	40 CFR 60.697(c)	Record the location, date, and corrective action for inspections of oil-water separators subject to 40 CFR 60.692-3 when a problem is identified that could result in VOC emissions.	Maintain all records for a minimum of 5 years.
NSPS Subpart QQQ 206	40 CFR 60.697(d)	Record the location, date, and corrective action for inspections of closed vent systems and completely closed drain systems during which detectable emissions are measured or a problem is identified that could result in VOC emissions.	Maintain all records for a minimum of 5 years.
NSPS Subpart QQQ 207	40 CFR 60.697(e)(1-3)	If an emission point cannot be repaired or corrected without a process unit shutdown, the expected date of a successful repair, reason for delay, and signature of person deciding repair could not be effected without shutdown shall be recorded.	Maintain all records for a minimum of 5 years.

Applicable Requirement	Citation	Process Unit Waste Water Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart QQQ 208	40 CFR 60.697(f)(1-2)	Maintain for life of source, information as specified in 40 CFR 60.697(f)(1-2) for all equipment used to comply with the provisions of this Subpart.	Maintain all records as specified in the referenced citation for the life of the source or facility.
NSPS Subpart QQQ 209	40 CFR 60.697(f)(3)(i-x)	Maintain information as specified in 40 CFR 60.697(f)(3), pertaining to the operation and maintenance of closed drain systems and closed vent systems.	Maintain all records as specified in the referenced citation for the life of the source or facility.
NSPS Subpart QQQ 210	40 CFR 60.697(g)	If facility elects to install a tightly sealed cap or plug over a drain that is out of active service, keep for the life of a facility in a readily accessible location, plans or specifications which indicate the location of such drains.	Maintain all records as specified in the referenced citation for the life of the source or facility.
NSPS Subpart QQQ 211	40 CFR 60.697(i)	For ancillary equipment excluded by 40 CFR 60.692-1(d)(2), keep for life of facility, plans or specifications which demonstrate that the ancillary equipment does not come in contact with or store oily wastewater.	Maintain all records as specified in the referenced citation for the life of the source or facility.
NSPS Subpart QQQ 212	40 CFR 60.697(j)	For non-contact cooling water systems excluded by 40 CFR 60.692-1(d)(3), keep for life of facility, plans/specifications to demonstrate that the cooling water does not contact hydrocarbons or oily wastewater & is not recirculated through a cooling tower.	Maintain all records as specified in the referenced citation for the life of the source or facility.
NSPS Subpart QQQ 213	40 CFR 60.698(b)(1)	Submit to the Administrator semiannually a certification that all of the required inspections have been carried out in accordance with these standards.	Maintain on file a copy of all certifications submitted to the Administrator.
NSPS Subpart QQQ 214	40 CFR 60.698(b)(1)	Notify the Administrator within 60 days after initial startup a certification that the equipment necessary to comply with these standards has been installed and required initial inspections or tests have been performed.	Maintain on file a copy of all notifications to the Administrator for at least 5 years.
NSPS Subpart QQQ 215	40 CFR 60.698(b)(2)	For each facility that uses a flare for compliance with this Subpart, submit to the Administrator within 60 days after initial startup, as required under 40 CFR 60.8 (a), a report of the results of the performance test required in 40 CFR 60.696 (c).	Maintain on site for review documentation of performance tests under general conditions for 5 years unless otherwise specified in the referenced citation.



Emission Source ID CG-WWT1  
Source Description Compliance Group ID for QQQ

Process Unit  
Waste Water

CLASS I OPERATING PERMIT  
Source ID No.: 1250093  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart QQQ	40 CFR 60.698(c)	Submit initially and semiannually thereafter, a report that summarizes all inspections when a water seal was dry, a drain cap/plug was missing or improperly installed, or when other problems were identified that could result in VOC emissions.	Maintain on file a copy of all required reports submitted to the Administrator.
216			
NSPS Subpart QQQ	40 CFR 60.698(d)(1-3)	Submit semiannually, as applicable, a report that indicates periods of operation during which the average temperature of gas stream or VOC concentration level exceeds monitoring levels as specified in 40 CFR 60.698(d)(1-3).	Maintain on file a copy of all required reports submitted to the Administrator.
217			
NSPS Subpart QQQ	40 CFR 60.698(e)	If compliance with provisions of this Subpart is delayed pursuant to 40 CFR 60.692-7, the notification required under 40 CFR 60.7(a)(4) shall include the estimated date of next scheduled shutdown and reason why compliance with standard needs shutdown.	Maintain on file a copy of all notifications to the Administrator for at least 5 years.
218			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Vents  219	40 CFR 63.643(a)(1)	If a flare is used to reduce emissions of organic HAP from a Group 1 process vent, ensure that it meets the requirements of 40 CFR 63.11(b) of Subpart A of this part.	Maintain records that demonstrate a flare meeting 40 CFR 63.11(b) requirements is used.
MACT Subpart CC - Vents  220	40 CFR 63.644(a)(2)	If a flare is used to comply with MACT for vents, install, calibrate, maintain, & operate a device (including but not limited to a thermocouple, ultraviolet beam sensor, or infrared sensor) capable of continuously detecting the presence of a pilot flame.	Maintain a records of the installation, calibration, maintenance and operation of the CMS on the flare to indicate presence of a flame.
MACT Subpart CC - Vents  221	40 CFR 63.654(d)(1)(ii)	Ensure that the Notification of Compliance Status report contains a list of each misc process vent subject to MACT, its group classification, and the method of compliance for each Group 1 vent.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
Consent Decree	Paragraph 60	Maintain a water seal on the Coker Drum flare line to prevent the depressurization gas from bypassing the refinery's fuel gas collection compressor systems and venting directly to the flare except for relief valve leakage or other emergency malfunctions.	A water seal is maintained on the Coker Drum flare line to prevent the depressurization gas from venting directly to the flare, except during process upset.
222			
MACT Subpart A - General Provisions	40 CFR 63.11(b)(1)	Flare shall be monitored to assure that it is operated and maintained in conformance with its design.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
223			
MACT Subpart A - General Provisions	40 CFR 63.11(b)(3)	Ensure that flare is operated at all times when emissions are to be vented to it.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
224			
MACT Subpart A - General Provisions	40 CFR 63.11(b)(4)	Ensure that flare is designed and operated with no visible emissions, except for periods not to exceed 5 min during any 2 consecutive hrs as determined by Test Method 22 in Appendix A of Part 60.	Maintain flare design and performance test records. Initially conduct the 2 hour Reference Method 22 visible emission performance test as required by the Administrator.
225			
MACT Subpart A - General Provisions	40 CFR 63.11(b)(5)	Operate the flare with a flame present at all times. Pilot flame shall be monitored using a thermocouple or equivalent device to detect the presence of a flame.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
226			
MACT Subpart A - General Provisions	40 CFR 63.11(b)(6)	Use only with the net heating value of the gas being combusted at 300 btu/scf or greater if designed for an exit velocity of >60 ft/sec.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
227			
MACT Subpart CC - Vents	40 CFR 63.644(a)(2)	If a flare is used to comply with MACT for vents, install, calibrate, maintain, & operate a device (including but not limited to a thermocouple, ultraviolet beam sensor, or infrared sensor) capable of continuously detecting the presence of a pilot flame.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
228			
MACT Subpart CC - Vents	40 CFR 63.645(i)	Conduct a compliance determination for visible emissions within 150 days of the compliance date using Method 22 of 40 CFR Part 60, Appendix A.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
229			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart J	40 CFR 60.104(a)(1)	Fuel gas with H <sub>2</sub> S content in excess of 0.10 gr/dscf shall not be burned in any fuel gas combustion device.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).
230			
NSPS Subpart J	40 CFR 60.105(a)(3)(iv)	Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location (i.e., after one of the combustion devices), provided monitoring accurately represents SO <sub>2</sub> emissions into the atmosphere from each location.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).
231			

Applicable Requirement	Citation	Process Unit No 1 Crude Unit-03 Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
Consent Decree	Paragraph 56	NOx emissions shall be limited to <81.7 tpy.	Maintain records to demonstrate that NOx emissions from this source is below 81.7 tpy. This value is to be calculated on a 12-month rolling basis.
232 MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7505(b)(1)	The affected boilers and heaters listed in §63.7506(b)(1) are subject to only the initial notification requirements in §63.9(b), and no other general requirements of 40 CFR 63 Subpart A.	Submit initial notification according to 40 CFR §63.9(b).
233 NSPS Subpart J	40 CFR 60.104(a)(1)	Fuel gas with H2S content in excess of 0.10 gr/dscf shall not be burned in any fuel gas combustion device.	Equip the fuel gas system with an SO2 and/or H2S monitor. Maintain records that demonstrate the H2S content of the fuel gas is within allowable limits.
234 NSPS Subpart J	40 CFR 60.105(a)(3)	Install, calibrate, maintain, and operate continuously, an instrument to monitor the concentration by volume of SO2 emissions into the atmosphere or install an H2S monitor as specified in 40 CFR 60.105(a)(4).	Equip the fuel gas system with an SO2 and/or H2S monitor. Maintain records to demonstrate compliance.
235 NSPS Subpart J	40 CFR 60.105(a)(3) (i-iv) & (a)(4)(i-iii)	For an SO2 and/or H2S monitor on fuel gas combustion devices, ensure that the monitor operates according to the span values, monitoring levels, and performance specifications outlined in 40 CFR 60.105(a)(3)(i-iv) and/or (a)(4)(i-iii).	Maintain records that demonstrate operation of the monitor is according to the span values and monitoring guidelines. However, a O2 span value variance of 21% has been granted by KDHE.
236 NSPS Subpart J	40 CFR 60.105(e)(3)	For purposes of reporting under 40 CFR 60.7(c), ensure that periods of excess emissions are reported using the guidelines outlined in 40 CFR 60.105(e)(3).	Maintain on site a copy of all reports in accordance with 40 CFR 60.7(b).
237 NSPS Subpart J	40 CFR 60.106(a) & (e)	In conducting performance tests required in 40 CFR 60.8, use the reference methods and procedures in Appendix A of Part 60 or other methods and procedures specified in 40 CFR 60.106 (e)	Maintain on site a copy of performance test reports that contain the procedures and conditions used for testing.
238 NSPS Subpart J	40 CFR 60.107(e) & (f)	For periods where SO2 and/or H2S emissions data are unavailable, submit a signed/certified statement to indicate if changes were made in operation of the emissions control system which could affect the systems ability to meet applicable emission limits.	Maintain on site a copy of all reports in accordance with 40 CFR 60.7(b).
239			

Emission Source ID EU-03-FH0005  
Source Description Radco Crude Unit Heater

Process Unit  
No 1 Crude Unit-03

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement Citation

Operating Limitation Or Condition

Monitoring, Performance Test, Recordkeeping and  
Reporting

Emission Source ID EU-03-FH0006  
Source Description Crude OPF Heater

Process Unit  
No 1 Crude Unit-03

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7505(b)(1)	The affected boilers and heaters listed in §63.7506(b)(1) are subject to only the initial notification requirements in §63.9(b), and no other general requirements of 40 CFR 63 Subpart A.	Submit initial notification according to 40 CFR §63.9(b).
240 NSPS Subpart J	40 CFR 60.104(a)(1)	Fuel gas with H <sub>2</sub> S content in excess of 0.10 gr/dscf shall not be burned in any fuel gas combustion device.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).
241 NSPS Subpart J	40 CFR 60.105(a)(3)(iv)	Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location (i.e., after one of the combustion devices), provided monitoring accurately represents SO <sub>2</sub> emissions into the atmosphere from each location.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).
242 Permit Requirement	KDHE Air Permit issued 12/21/76	Crude OPF Heater #38 (EU-03-FH0006) specifications: 95 MMbtu.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
243			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
Consent Decree  244	Paragraph 62 and Appendix 3 Item 6	No. 1 Crude Tower Overhead Receiver vent stream shall be controlled except during startup, shutdown and malfunction.	No. 1 Crude Tower Overhead Receiver vent stream has been compressed to the fuel gas system except during startup, shutdown and malfunction.



Emission Source ID EU-05-100  
Source Description Vacuum Unit No. 3 Wastewater Sump

Process Unit  
Sewer and WW-30

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
Consent Decree 245	Appendix 3 Item 12	#3 Vacuum Unit wastewater stream is subject to NSPS Subpart QQQ.	Maintain inspection records and report as required.
NSPS Subpart QQQ 246	40 CFR 60.692-2	Standard: Individual Drain Systems	Use compliance methods described in source #CG-WWT1. Follow all compliance methods for individual drains systems (60.692-2) listed for CG-WWT1. For oil water separators, follow all compliance methods for 60.692-3.

Emission Source ID EU-06-100  
Source Description Crude Unit No. 2 Wastewater Sump

Process Unit  
Sewer and WW-30

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
Consent Decree 247	Appendix 3 Item 9	#2 Crude Unit is subject to NSPS Subpart QQQ.	Maintain inspection records and report as required.
NSPS Subpart QQQ 248	40 CFR 60.692-2	Standard: Individual Drain Systems	Use compliance methods described in source #CG-WWT1. Follow all compliance methods for individual drains systems (60.692-2) listed for CG-WWT1. For oil water separators, follow all compliance methods for 60.692-3.

Emission Source ID EU-08-100  
Source Description #1 HDS Unit Wastewater Sump

Process Unit  
Sewer and WW-30

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
Consent Decree 249	Appendix 3 Item 8	#1 HDS wastewater stream is subject to NSPS Subpart QQQ.	Maintain inspection records and report as required.
NSPS Subpart QQQ  250	40 CFR 60.692-2	Standard: Individual Drain Systems	Use compliance methods described in source #CG-WWT1. Follow all compliance methods for individual drains systems (60.692-2) listed for CG-WWT1. For oil water separators, follow all compliance methods for 60.692-3.

Emission Source ID EU-08-101  
Source Description #2 HDS Unit Wastewater Sump

Process Unit  
Sewer and WW-30

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart QQQ	40 CFR 60.692-2	Standard: Individual Drain Systems	Use compliance methods described in source #CG-WWT1. Follow all compliance methods for individual drains systems (60.692-2) listed for CG-WWT1. For oil water separators, follow all compliance methods for 60.692-3.

251

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart A - General Provisions 252	40 CFR 63.11(b)(1)	Flare shall be monitored to assure that it is operated and maintained in conformance with its design.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
MACT Subpart A - General Provisions 253	40 CFR 63.11(b)(3)	Ensure that flare is operated at all times when emissions are to be vented to it.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
MACT Subpart A - General Provisions 254	40 CFR 63.11(b)(4)	Ensure that flare is designed and operated with no visible emissions, except for periods not to exceed 5 min during any 2 consecutive hrs as determined by Test Method 22 in Appendix A of Part 60.	Maintain flare design and performance test records. Initially conduct the 2 hour Reference Method 22 visible emission performance test as required by the Administrator.
MACT Subpart A - General Provisions 255	40 CFR 63.11(b)(5)	Operate the flare with a flame present at all times. Pilot flame shall be monitored using a thermocouple or equivalent device to detect the presence of a flame.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
MACT Subpart A - General Provisions 256	40 CFR 63.11(b)(6)	Use only with the net heating value of the gas being combusted at 300 btu/scf or greater if designed for an exit velocity of >60 ft/sec.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
MACT Subpart CC - Vents 257	40 CFR 63.644(a)(2)	If a flare is used to comply with MACT for vents, install, calibrate, maintain, & operate a device (including but not limited to a thermocouple, ultraviolet beam sensor, or infrared sensor) capable of continuously detecting the presence of a pilot flame.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
MACT Subpart CC - Vents 258	40 CFR 63.645(i)	Conduct a compliance determination for visible emissions within 150 days of the compliance date using Method 22 of 40 CFR Part 60, Appendix A.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
NSPS Subpart J 259	40 CFR 60.104(a)(1)	Fuel gas with H <sub>2</sub> S content in excess of 0.10 gr/dscf shall not be burned in any fuel gas combustion device.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).

Emission Source ID EU-08-102  
Source Description Cold Water Pond Flare

Process Unit  
HDS Unit-08

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart J	40 CFR 60.105(a)(3)(iv)	Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location (i.e., after one of the combustion devices), provided monitoring accurately represents SO <sub>2</sub> emissions into the atmosphere from each location.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).

260

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT UUU	40 CFR 63.1567(a)(1)	For each existing semi-regenerative catalytic reforming unit reduce emissions of hydrogen chloride by 92% by weight or to a concentration of 30 ppmv (dry basis) corrected to 3% O <sub>2</sub> .	Maintain records to demonstrate that the emission limits specified in the referenced citation for the process vent during coke burn off and catalyst rejuvenation are met.
261 MACT UUU	40 CFR 63.1567(a)(2)	For each existing catalytic reforming unit using an internal scrubbing system, the HCl concentration in the catalyst regenerator exhaust gas must not exceed the limit established during the performance test.	Maintain records to demonstrate the operating limits specified in the referenced citation during coke burn off and catalyst rejuvenation have been met.
262 MACT UUU	40 CFR 63.1567(b)(1)	Install and operate a continuous monitoring system (CMS).	Maintain records to demonstrate that a colorimetric tube sampling system is being used to measure HCl concentration as specified in the referenced citation.
263 MACT UUU	40 CFR 63.1567(b)(2)(3)	Measure the concentration of HCl in the catalyst regenerator exhaust gas and establish an operating limit for HCl concentration.	Maintain records to demonstrate that a method 26 performance test using the requirements specified in the referenced citation has been conducted.
264 MACT UUU	40 CFR 63.1567(b)(4)	For an existing semi-regenerative catalytic reforming unit, reduce HCl emissions, using a control device by 92% by weight or 30 ppmv (dry basis), corrected to 3% O <sub>2</sub> .	Maintain records to demonstrate that average emissions of HCl measured are reduced by 92% or < or = to 30 ppmv (dry basis) corrected to 3% O <sub>2</sub> .
265 MACT UUU	40 CFR 63.1567(c)	For an existing semi-regenerative catalytic reforming unit, reduce HCl emissions, using a control device by 92% by weight or 30 ppmv (dry basis), corrected to 3% O <sub>2</sub> .	Maintain records to demonstrate continuous compliance during coke burn off and catalyst rejuvenation, by maintaining a 92% HCl concentration, or no more than 30 ppmv (dry basis) corrected to 3% O <sub>2</sub> .
266 MACT UUU	40 CFR 63.1576(c)(1)	For each existing catalytic reforming unit, the HCl concentration in the catalyst regenerator exhaust gas must not exceed the applicable limit established during the performance test.	Maintain records to demonstrate that during coke burn off and catalyst rejuvenation HCl concentration is measured and recorded every 4 hours using a colorimetric tube sampling system. Maintain HCl concentration below applicable operating limit.
267			

Emission Source ID EU-10-FH0014  
Source Description Reformer #1 & #3 Reactor Heaters

CLASS 1 OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Process Unit Platformer Unit-10 Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7505(b)(1)	The affected boilers and heaters listed in §63.7506(b)(1) are subject to only the initial notification requirements in §63.9(b), and no other general requirements of 40 CFR 63 Subpart A.	Submit initial notification according to 40 CFR §63.9(b).
268			
NSPS Subpart J	40 CFR 60.104(a)(1)	Fuel gas with H <sub>2</sub> S content in excess of 0.10 gr/dscf shall not be burned in any fuel gas combustion device.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).
269			
NSPS Subpart J	40 CFR 60.105(a)(3)(iv)	Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location (i.e., after one of the combustion devices), provided monitoring accurately represents SO <sub>2</sub> emissions into the atmosphere from each location.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).
270			
Permit Requirement	KDHE Air Permit issued 8/14/78 and PSD Permit issued 9/4/1980	Reformer Heater #42 (EU-10-FH0014) specifications: use refinery/natural gases; preheat and low NO <sub>x</sub> burners; 0.16 lb NO <sub>x</sub> /MMBtu.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
271			



Emission Source ID EU-10-FH0015  
Source Description Reformer Reactor Heater #2

CLASS 1 OPERATING PERMIT  
Source ID No.: 1259003  
ATTACHMENT D

Applicable Requirement		Citation	Process Unit Platformer Unit-10 Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KAR - Particulate Matter Requirements	272	KAR 28-19-31(a)	A person shall not cause or permit emissions of particulate matter from this equipment in excess of the limits set forth in KAR 28-19-31(a).	Maintain records that demonstrate this source is in clean fuel service. Compliance is presumed by using refinery fuel gas and/or natural gas as a fuel.
MACT DDDDD - Boilers and Process Heaters	273	40 CFR 63.7505(b)(1)	The affected boilers and heaters listed in §63.7505(b)(1) are subject to only the initial notification requirements in §63.9(b), and no other general requirements of 40 CFR 63 Subpart A.	Submit initial notification according to 40 CFR §63.9(b).
Permit Requirement	274	PSD Permit dated 9/4/80	Reformer Heater #4 (EU-10-FH0015) specifications: use refinery/natural gases; preheat and low NOx burners; 0.16 lb NOx/MMBtu.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KDHE Construction Permit, issued 2/18/94  275	Permit Requirement, Air Emission Limitation No. 1	Ensure that emissions of NOx, CO, and non-methane hydrocarbons (NMHC) from the 1232 HP natural gas driven compressor do not exceed the following emission limits: 17.8 tpy NOx, 31.5 tpy CO, and 11.9 tpy NMHC.	Maintain records of natural gas usage and verify emissions by means of emission calculation, stack testing, or monitoring.
KDHE Construction Permit, issued 2/18/94  276	Permit Requirement, Notification	Notify Air Quality District Representative in Southeast District KDHE office when installation of this gas compressor unit is complete so that an evaluation can be conducted to verify compliance with applicable regulations.	Maintain on site for review a copy of reports/notifications submitted to the Administrator for 5 years unless otherwise specified in the referenced citation.

Emission Source ID EU-12-FH0003  
Source Description Coker Heavy Heater (DHR-3)

Process Unit  
Coker-12

CLASS I OPERATING PERMIT  
Source ID No.: 1259003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7505(b)(1)	The affected boilers and heaters listed in §63.7506(b)(1) are subject to only the initial notification requirements in §63.9(b), and no other general requirements of 40 CFR 63 Subpart A.	Submit initial notification according to 40 CFR §63.9(b).
277			
NSPS Subpart J	40 CFR 60.104(a)(1)	Fuel gas with H <sub>2</sub> S content in excess of 0.10 gr/dscf shall not be burned in any fuel gas combustion device.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).
278			
NSPS Subpart J	40 CFR 60.105(a)(3)(iv)	Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location (i.e., after one of the combustion devices), provided monitoring accurately represents SO <sub>2</sub> emissions into the atmosphere from each location.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).
279			
Permit Requirement	KDHE Air Permit, issued 12/21/76	Coker Heater #37 (EU-12-FH0003) approved for installations with max heating capacity of 62 MMbtu/hr., natural gas as primary fuel.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
280			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
Consent Decree 281	Appendix 3 Item 2 and Consent Decree Construction Permit	The fresh feed capability of the FCCU, as defined in the Consent Decree Civ. No. 04-CV-1064-MLR, is 32,500 barrels per stream day, which corresponds to an annual fresh feed capability of 30,907 barrels per calendar day.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
Consent Decree 282	Paragraph 23	By 12/31/2010, install Selective Catalytic Reduction (SCR), LOWNOx or other approved technology to comply with <20 ppmvd NOx @ 0% O2 (365 day rolling basis) and <40 ppmvd NOx @ 0% O2 (7 day rolling basis) except during startup, shutdown or malfunction.	Implement control technology to comply with the NOx emission limits and use CEMs to monitor the NOx emissions from the FCCU.
Consent Decree 283	Paragraph 42	By 12/31/2010, install Wet Gas Scrubber or other alternative technology approved by EPA and KDHE to comply with SO2 emission limits of 25 ppmvd @ 0% O2 on 365 day rolling basis, and 50 ppmvd @ 0% O2 on 7 day rolling basis.	Implement control technology to comply with the SO2 emission limits and use CEMs to monitor the SO2 emissions from the FCCU.
Consent Decree 284	Paragraph 44	By 12/31/2010, comply with PM emission limit < 0.5 lbs of PM per 1,000 lbs of coke burned (excluding startup, shutdown, and malfunctions) on a 3-hour average basis using electrostatic precipitator (ESP) or other means.	Implement control technology to comply with the PM emission limit and perform required stack tests.
KAR - Particulate Matter Requirements 285	KAR 28-19-20	A person shall not cause or permit the emissions of particulate matter from this equipment in excess of the specified allowable amount as outlined in table P-1 of the regulation.	Maintain records that demonstrate this source is in clean fuel service. Compliance with this regulation is presumed because refinery fuel gas and/or natural gas is used as a fuel.
KAR-CEM 286	KAR 28-19-19(c)(3)	A CEM for opacity must be installed, tested, and continuously operated on the fluid-bed catalyst cracking unit catalyst regenerator.	Equip the FCC regenerator with a COM for opacity and maintain on site for review COM records for opacity.
KAR-CEM 287	KAR 28-19-19(d)	Install CEM on emission unit and demonstrate compliance with a performance test by November 1, 1987.	Maintain a copy of the performance test results for on site review for 5 years unless otherwise specified in the referenced citation.
KAR-CEM 288	KAR 28-19-19(f)(1-2)	Ensure that notification to KDHE of the anticipated date of CEMS installation and of the date upon which CEMS performance tests commenced was postmarked at least 30 days prior to the respective dates.	Maintain on site a copy of notifications sent to KDHE.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KAR-CEM 288	KAR 28-19-19(g)	Ensure that an initial performance test was conducted according to the specifications and test procedures in 40 CFR Part 60 Appendix B.	Maintain on site a copy of performance test reports that contain the procedures and conditions used for testing.
KAR-CEM 290	KAR 28-19-19(h)	Maintain for at least 2 yrs, a record of all measurements, performance tests and evaluations, calibration checks, adjustments and maintenance, and any other information required by regulation.	Maintain records of measurements, performance tests, evaluations, calibration checks, etc. on site for at least 5 years.
KAR-CEM 291	KAR 28-19-19(i)	Operate all CEMS continuously except for system breakdowns, repairs, calibration checks, and zero and span adjustments required under the quality assurance plan of this regulation.	Maintain on site a log of all periods that the CEMS is not operated (due to system breakdowns, repairs, calibration checks, etc.). If the CEMS fails, a back-up method specified in the CEM/COM manual is used.
KAR-CEM 292	KAR 28-19-19(j)	Source emission shall be monitored during all phases of operation except during periods of scheduled emission unit outages or turnaround.	Maintain on site CEM records for a period of 5 years.
KAR-CEM 293	KAR 28-19-19(k)	Submit a written report [to include information specified in KAR 28-19-19(k)(1-6) and (l)(1-5)] of emission in excess of the applicable standards for each calendar quarter postmarked before the 30th day following the end of the quarter.	Maintain on site a copy of all reports for at least 5 years from date of report issuance.
KAR-CEM 294	KAR 28-19-19(m)	Within 30 days prior to the CEMS performance test, submit a quality assurance plan that contains all provisions necessary to ensure that the CEMS produce continuous data with sufficient accuracy and precision (info specified in KAR 28-19-19(m)(1-6)).	Maintain required records on site for a period of 5 years from the date of QA/QC plan submittal.
MACT Support UUU - FCCU 295	40 CFR 63.1564(a)(1)	No discharge of particulate matter to the atmosphere in excess of 1.0 lbs/1000 lbs of coke burn-off should occur from any FCC catalyst regenerator.	Demonstrate compliance with this requirement by performance tests conducted every 5 years. Maintain copies on file for review.
MACT Support UUU - FCCU 296	40 CFR 63.1564(a)(1)	No gas exhibiting greater than 30% opacity, except for one 6-minute average opacity reading should occur in any one hour period from any FCC catalyst regenerator.	Use an alarm system and conduct a quarterly review of COMS data to demonstrate compliance. Maintain on site a copy of all reports for at least 5 year from date of issuance.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart UUU - FCCU	40 CFR 63.1564(b)(1)	Install, calibrate, maintain, and operate a continuous opacity monitor with recorder on the FCC catalyst regenerator. Span values shall be 60, 70, or 80% opacity.	Maintain records specified in the referenced citation to demonstrate the emission unit is equipped with a COMS for opacity.
297			
MACT Subpart UUU - FCCU	40 CFR 63.1564(b)(5) 40 CFR 63.1565(b)(4)	Conduct a performance test of the unit as required in 40 CFR 60.8 according to the reference methods and procedures described in 40 CFR 60.106(a)(f).	Complete the performance test required under 40 CFR 60.8 using the referenced methods and procedures identified under 40 CFR 60.106. Maintain on file copies of the test reports for 5 years from date of report issuance.
298			
MACT Subpart UUU - FCCU	40 CFR 63.1564(c)(1) 40 CFR 63.1565(c)(1)	Record daily, the average coke burn-off rate (thousands of kgs per hr) and hours of operation for the FCC catalyst regenerator.	Establish daily calculation procedures and maintain records on site for review.
299			
MACT Subpart UUU - FCCU	40 CFR 63.1565(a)(1)	No discharge to the atmosphere in excess of 500 ppm carbon monoxide (dry basis) should occur from any FCC catalyst regenerator.	Use an alarm system and conduct a quarterly review of CEMS data to demonstrate compliance. Maintain on site a copy of all reports for at least 5 years.
300			
MACT Subpart UUU - FCCU	40 CFR 63.1565(b)(1)	Install, calibrate, maintain, and operate a continuous CO monitor with recorder on the FCC catalyst regenerator. Span value is 1000 ppm CO.	Maintain records specified in the referenced citation to demonstrate the emission unit is equipped with a CEMS for CO.
301			
NSPS Subpart J	40 CFR 60.100 (b)	Any fluid catalytic cracking unit catalyst regenerator which commences construction or modification after June 11, 1973, is subject to the requirements of this Subpart except as provided under paragraph (c) and (d) of this section.	Maintain records indicating that the FCCU catalytic regenerator was constructed or modified after 6/11/73 and meets the conditions under 60.100( c) and (d).
302			
NSPS Subpart J	40 CFR 60.102(a)(1)	No discharge of particulate matter to the atmosphere in excess of 1.0 lbs/1000 lbs of coke burn-off should occur from any FCC catalyst regenerator.	Demonstrate compliance with this requirement by performance tests conducted every 5 years. Maintain copies on file for review.
303			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart J 304	40 CFR 60.102(a)(2)	No gas exhibiting greater than 30% opacity, except for one 6-minute average opacity reading should occur in any one hour period from any FCC catalyst regenerator.	Use an alarm system and conduct a quarterly review of COMS data to demonstrate compliance. Maintain on site a copy of all reports for at least 5 year from date of issuance.
NSPS Subpart J 305	40 CFR 60.103(a)	No discharge to the atmosphere in excess of 500 ppm carbon monoxide (dry basis) should occur from any FCC catalyst regenerator.	Use an alarm system and conduct a quarterly review of CEMS data to demonstrate compliance. Maintain on site a copy of all reports for at least 5 years.
NSPS Subpart J 306	40 CFR 60.105 (e)(1)	Report all 1 hour periods that contain 2 or more 6 min. periods during which the average opacity, as measured by a CEMS, under 60.105 (a)(1) exceeds 30%.	Maintain on site a copy of all reports for at least 5 years from date of report issuance.
NSPS Subpart J 307	40 CFR 60.105 (e)(2)	Report all 1 hr. periods during which the average CO concentration as measured by the CO continuous monitoring system under 60.105 (a)(2) exceeds 500 ppm.	Maintain on site a copy of all reports for at least 5 years from date of report issuance.
NSPS Subpart J 308	40 CFR 60.105(a)(1)	Install, calibrate, maintain, and operate a continuous opacity monitor with recorder on the FCC catalyst regenerator. Span values shall be 60, 70, or 80% opacity.	Maintain records specified in the referenced citation to demonstrate the emission unit is equipped with a COMS for opacity.
NSPS Subpart J 309	40 CFR 60.105(e)(2)	Install, calibrate, maintain, and operate a continuous CO monitor with recorder on the FCC catalyst regenerator. Span value is 1000 ppm CO.	Maintain records specified in the referenced citation to demonstrate the emission unit is equipped with a CEMS for CO.
NSPS Subpart J 310	40 CFR 60.105(c)	Record daily, the average coke burn-off rate (thousands of kgs per hr) and hours of operation for the FCC catalyst regenerator.	Establish daily calculation procedures and maintain records on site for review.
NSPS Subpart J 311	40 CFR 60.105(e)	Determine and report periods of excess emissions according to method in 60.105(e).	Maintain on site a copy of all reports for at least 5 years from date of report issuance.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart J	40 CFR 60.106(a)(f)	Conduct a performance test of the unit as required in 60.8 according to the reference methods and procedures described in 60.106(a)(f).	Complete the performance test required under 40 CFR 60.8 using the referenced methods and procedures identified under 40 CFR 60.106. Maintain on file copies of the test reports for 5 years from date of report issuance.
312 Permit Requirement	KDHE Air Permit issued 3/5/02	No gas exhibiting greater than 30% opacity, except for one 6-minute average opacity reading should occur in any one hour period from any FCC catalyst regenerator.	Use an alarm system and conduct a quarterly review of COMS data to demonstrate compliance. Maintain on site a copy of all reports for at least 5 year from date of issuance.
313 Permit Requirement	KDHE Air Permit issued 3/5/02	Operate the FCCU regenerator & regenerator flue gas train using SOx control catalyst additive to maintain SOx emissions to < 890/tons each consecutive 12 mo.period.	Maintain records of monthly SO2 emissions for at least 5 years.
314 Permit Requirement	KDHE Air Permit issued 3/5/02	Monitor the FCCU regenerator & regenerator flue gas train SOx emissions using a SOx continuous emission monitor following requirements of 40 CFR Part 60, Subpart J including performance test timelines. Operate in accordance with QA/QC procedures.	Maintains records specified in the referenced citation to demonstrate the emission unit is equipped with a CEMS for SO2.
315 Permit Requirement	KDHE Air Permit issued 3/5/02	Record monthly, FCCU regenerator & regenerator flue gas train SOx emissions. Records shall be maintained on site for a minimum of 5 years.	Maintain records of monthly SO2 emissions for at least 5 years.
316			



Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KAR - Particulate Matter Requirements	KAR 28-19-31(a)	A person shall not cause or permit emissions of particulate matter from this equipment in excess of the limits set forth in KAR 28-19-31(a).	Maintain records that demonstrate this source is in clean fuel service. Compliance is presumed by using refinery fuel gas and/or natural gas as a fuel.
317 MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7505(b)(1)	The affected boilers and heaters listed in §63.7506(b)(1) are subject to only the initial notification requirements in §63.9(b), and no other general requirements of 40 CFR 63 Subpart A.	Submit initial notification according to 40 CFR §63.9(b).
318			

Applicable Requirement	Citation	Process Unit Sulfur Complex-18 Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KDHE Construction Permit, issued 8/12/2005	Permit Condition 1	Hourly average SO <sub>2</sub> emissions discharged into the atmosphere from the Claus sulfur recovery unit shall be below 210 ppmv (dry basis) at zero percent excess air.	Maintain records of hourly stack average emissions of SO <sub>2</sub> and ensure the emissions are not above the emission limits. Submit any exceedences to the conditions in the quarterly reports.
319 KDHE Construction Permit, issued 8/12/2005	Permit Condition 2	Review monthly data to determine all 12-hour periods where the emissions of SO <sub>2</sub> was greater than 210 ppmv (dry air, 0% excess air). Include any excess emissions in Quarterly Air Emissions Report.	Maintain required excess emission reports for SO <sub>2</sub> (12-hour rolling periods) on site for at least 5 years, and include any excess emissions in Quarterly Reports.
320 MACT UUU-SRU	40 CFR 63.1568(a)(1)	Shall not discharge or cause the discharge of any gases into the atmosphere from any Claus sulfur recovery plant containing in excess of 250 ppmv of sulfur dioxide for a control system followed by incineration.	Use an alarm system and conduct a quarterly review of CEMS data to demonstrate compliance. Maintain on site a copy of all reports for at least 5 years.
321 MACT UUU-SRU	40 CFR 63.1568(b)(1)	For Claus plants w/oxidation control & incineration, install an instrument to continuously monitor and record SO <sub>2</sub> emissions into the atmosphere.	Maintain on site for review CEM records for SO <sub>2</sub> .
322 MACT UUU-SRU	40 CFR 63.1568(b)(5)	For SO <sub>2</sub> CEM, ensure that the span values and monitoring levels are as required in 40 CFR 60.104(a)(3)(i-iv).	Maintain records that demonstrate calibration of SO <sub>2</sub> monitor. Maintain records that demonstrate the monitor is operated using a span value of 21% O <sub>2</sub> as alternative monitoring under 40 CFR 60.12 (KDHE's "variance letter" dated 8/31/94).
323 MACT UUU-SRU	40 CFR 63.1568(c)(1)	Determine and report periods of excess emissions for all 12-hour periods during which the average concentration of SO <sub>2</sub> as measured by the SO <sub>2</sub> CEMS under 105(a)(5) exceeds 250 ppm (dry basis, 0% excess air).	Maintain required excess emission reports for SO <sub>2</sub> (12-hour rolling periods) on site for at least 5 years.
324 NSPS Subpart J	40 CFR 60.100 (b)	Any Claus sulfur recovery plant under paragraph (a) of this section which commences construction or modification after 10/4/76 is subject to the requirements of this subpart except as provided under paragraphs (c) and (d) of this section.	Maintain records indicating that the Claus SRU was constructed or modified after 10/4/76.
325			

Applicable Requirement	Citation	Process Unit Sulfur Complex-18 Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart J	40 CFR 60.104(a)(2)(i)	Shall not discharge or cause the discharge of any gases into the atmosphere from any Claus sulfur recovery plant containing in excess of 250 ppmv of sulfur dioxide for a control system followed by incineration.	Use an alarm system and conduct a quarterly review of CEMS data to demonstrate compliance. Maintain on site a copy of all reports for at least 5 years.
326			
NSPS Subpart J	40 CFR 60.105 (e)(4)(i)	Determine and report periods of excess emissions for all 12-hour periods during which the average concentration of SO <sub>2</sub> as measured by the SO <sub>2</sub> CEMS under 105(a)(5) exceeds 250 ppm (dry basis, 0% excess air).	Maintain required excess emission reports for SO <sub>2</sub> (12-hour rolling periods) on site for at least 5 years.
327			
NSPS Subpart J	40 CFR 60.105(a)(5)	For Claus plants w/oxidation control & incineration, install an instrument to continuously monitor and record SO <sub>2</sub> emissions into the atmosphere.	Maintain on site for review CEM records for SO <sub>2</sub> .
328			
NSPS Subpart J	40 CFR 60.105(a)(5)(i-ii)	For SO <sub>2</sub> CEM, ensure that the span values and monitoring levels are as required in 40 CFR 60.104(a)(3)(i-iv).	Maintain records that demonstrate calibration of SO <sub>2</sub> monitor. Maintain records that demonstrate the monitor is operated using a span value of 21% O <sub>2</sub> as alternative monitoring under 40 CFR 60.12 (KDHE's "variance letter" dated 8/31/94).
329			
NSPS Subpart J	40 CFR 60.105(e)	Determine and report periods of excess emissions according to method in 60.105(e).	Use an alarm system and conduct a quarterly review of CEMS data to demonstrate compliance. Maintain on site a copy of all reports for at least 5 year from date of issuance.
330			
NSPS Subpart J	40 CFR 60.106(a)(f)	Conduct a performance test of the unit as required in 40 CFR 60.8 according to the reference methods and procedures described in 40 CFR 60.106(a)(f).	Maintain on file copies of the test reports for 5 years.
331			
NSPS Subpart J	40 CFR 60.107(c) & (f)	For periods where SO <sub>2</sub> and/or H <sub>2</sub> S emissions data are unavailable, submit a signed/certified statement to indicate if changes were made in operation of the emissions control system which could affect the systems ability to meet applicable emission limits.	Maintain on site a copy of all reports in accordance with 40 CFR 60.7(b).
332			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
Consent Decree 333	Paragraph 52	Comply with NSPS J requirements for Sulfur Recovery Plants.	Comply with the SO <sub>2</sub> emission limit and monitor the SO <sub>2</sub> emissions as required.
KAR-Opacity 334	KAR 28-19-650 (a)(3)	No person shall cause or permit visible contaminant emissions from the processing of any materials or other use of any process which is equal or exceeds 20 % opacity.	Maintain records that demonstrate this source is in clean fuel service. Compliance is presumed by using refinery fuel gas and/or natural gas as a fuel.
MACT UUU-SRU 335	40 CFR 63.1568(a)(1)	Shall not discharge or cause the discharge of any gases into the atmosphere from any Claus sulfur recovery plant containing in excess of 250 ppmv of sulfur dioxide for a control system followed by incineration.	Use an alarm system and conduct a quarterly review of CEMS data to demonstrate compliance. Maintain on site a copy of all reports for at least 5 years.
MACT UUU-SRU 336	40 CFR 63.1568(b)(1)	For Claus plants w/oxidation control & incineration, install an instrument to continuously monitor and record SO <sub>2</sub> emissions into the atmosphere.	Maintain on site for review CEM records for SO <sub>2</sub> .
MACT UUU-SRU 337	40 CFR 63.1568(b)(5)	For SO <sub>2</sub> CEM, ensure that the span values and monitoring levels are as required in 40 CFR 60.104(a)(3)(i-iv).	Maintain records that demonstrate calibration of SO <sub>2</sub> monitor. Maintain records that demonstrate the monitor is operated using a span value of 21% O <sub>2</sub> as alternative monitoring under 40 CFR 60.12 (KIDHE's "variance letter" dated 8/31/94).
MACT UUU-SRU 338	40 CFR 63.1568(c)(1)	Determine and report periods of excess emissions for all 12-hour periods during which the average concentration of SO <sub>2</sub> as measured by the SO <sub>2</sub> CEMS under 105(a)(5) exceeds 250 ppm (dry basis, 0% excess air).	Maintain required excess emission reports for SO <sub>2</sub> (12-hour rolling periods) on site for at least 5 years.
NSPS Subpart J 339	40 CFR 60.100 (b)	Any Claus sulfur recovery plant under paragraph (a) of this section which commences construction or modification after 10/4/76 is subject to the requirements of this subpart except as provided under paragraphs (c) and (d) of this section.	Maintain records indicating that the Claus SRU was constructed or modified after 10/4/76.

Applicable Requirement	Citation	Process Unit Sulfur Complex-18 Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart J	40 CFR 60.104(a)(2)(i)	Shall not discharge or cause the discharge of any gases into the atmosphere from any Claus sulfur recovery plant containing in excess of 250 ppmv of sulfur dioxide for a control system followed by incineration.	Use an alarm system and conduct a quarterly review of CEMS data to demonstrate compliance. Maintain on site a copy of all reports for at least 5 years.
340			
NSPS Subpart J	40 CFR 60.105 (e)(4)(i)	Determine and report periods of excess emissions for all 12-hour periods during which the average concentration of SO <sub>2</sub> as measured by the SO <sub>2</sub> CEMS under 105(a)(5) exceeds 250 ppm (dry basis, 0% excess air).	Maintain required excess emission reports for SO <sub>2</sub> (12-hour rolling periods) on site for at least 5 years.
341			
NSPS Subpart J	40 CFR 60.105(a)(5)	For Claus plants w/oxidation control & incineration, install an instrument to continuously monitor and record SO <sub>2</sub> emissions into the atmosphere.	Maintain on site for review CEM records for SO <sub>2</sub> .
342			
NSPS Subpart J	40 CFR 60.105(a)(5)(i-ii)	For SO <sub>2</sub> CEM, ensure that the span values and monitoring levels are as required in 40 CFR 60.104(a)(3)(i-iv).	Maintain records that demonstrate calibration of SO <sub>2</sub> monitor. Maintain records that demonstrate the monitor is operated using a span value of 21% O <sub>2</sub> as alternative monitoring under 40 CFR 60.12 (KDHE's "variance letter" dated 8/31/94).
343			
NSPS Subpart J	40 CFR 60.105(e)	Determine and report periods of excess emissions according to method in 60.105(e).	Use an alarm system and conduct a quarterly review of COMS data to demonstrate compliance. Maintain on site a copy of all reports for at least 5 year from date of issuance.
344			
NSPS Subpart J	40 CFR 60.106(a)(f)	Conduct a performance test of the unit as required in 40 CFR 60.8 according to the reference methods and procedures described in 40 CFR 60.106(a)(f).	Maintain on file copies of the test reports for 5 years.
345			
NSPS Subpart J	40 CFR 60.107(c) & (f)	For periods where SO <sub>2</sub> and/or H <sub>2</sub> S emissions data are unavailable, submit a signed/certified statement to indicate if changes were made in operation of the emissions control system which could affect the systems ability to meet applicable emission limits.	Maintain on site a copy of all reports in accordance with 40 CFR 60.7(b).
346			

Emission Source ID EU-28-001  
Source Description Sour Water Stripper

Process Unit  
Water Stripper-28

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement Citation

Operating Limitation Or Condition

Monitoring, Performance Test, Recordkeeping and Reporting

Consent Decree

Paragraph 53

The facility shall not discharge sour water stripper off-gases to the atmosphere.

Documentation is on file to demonstrate that SWS off-gases are processed through the SRU prior to combustion in the Tail Gas Treating Unit.

347

Emission Source ID EU-28-100  
Source Description Sour Water Stripper Wastewater Sump

Process Unit  
Sewer and WW-30

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
Consent Decree 348	Appendix 3 Item 11	Sour Water Stripper Sump is subject to NSPS Subpart QQQ.	Maintain inspection records and report as required.
NSPS Subpart QQQ 349	40 CFR 60.692-2	Standard: Individual Drain Systems	Use compliance methods described in source #CG-WWT1. Follow all compliance methods for individual drains systems (60.692-2) listed for CG-WWT1. For oil water separators, follow all compliance methods for 60.692-3.

Emission Source ID EU-30-001  
Source Description API Oil-Water Separator

Process Unit  
Sewer and WW-30

CLASS I OPERATING PERMIT  
Source ID No.: J250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart QQQ	40 CFR 60.692-3	Standard: Oil Water Separator	Use compliance methods described in source #CG-WWT1. Follow all compliance methods for oil water separators (60.692-3) listed for CG-WWT1.

350



Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
Consent Decree	Paragraph 61	Comply with the monitoring requirements of NSPS Subpart J through compliance with the EPA-approved alternative monitoring plan (AMP), an H2S CEM on the gas stream, or by process changes to re-route the gas stream.	Monitor the flare according to the approved AMP.
351			
NSPS Subpart J	40 CFR 60.104(a)(1)	Fuel gas with H2S content in excess of 0.10 gr/dscf shall not be burned in any fuel gas combustion device.	Compliance with this requirement is demonstrated by following the approved "Alternative Monitoring Plan for NSPS Subpart J Refinery Fuel Gas".
352			
NSPS Subpart J	40 CFR 60.105(a)(3)	Install, calibrate, maintain, and operate continuously, an instrument to monitor the concentration by volume of SO2 emissions into the atmosphere or install an H2S monitor as specified in 40 CFR 60.105(a)(4).	Compliance with this requirement is demonstrated by following the approved "Alternative Monitoring Plan for NSPS Subpart J Refinery Fuel Gas".
353			
NSPS Subpart J	40 CFR 60.105(a)(3) (i-iv) & (a)(4)(i-iii)	For an SO2 and/or H2S monitor on fuel gas combustion devices, ensure that the monitor operates according to the span values, monitoring levels, and performance specifications outlined in 40 CFR 60.105(a)(3)(i-iv) and/or (a)(4)(i-iii).	Compliance with this requirement is demonstrated by following the approved "Alternative Monitoring Plan for NSPS Subpart J Refinery Fuel Gas".
354			
NSPS Subpart J	40 CFR 60.105(e)(3)	For purposes of reporting under 40 CFR 60.7(c), ensure that periods of excess emissions are reported using the guidelines outlined in 40 CFR 60.105(e)(3).	Compliance with this requirement is demonstrated by following the approved "Alternative Monitoring Plan for NSPS Subpart J Refinery Fuel Gas".
355			
NSPS Subpart J	40 CFR 60.106(k)	Ensure that the test methods used to supplement monitoring data in 40 CFR 60.104 (d) are used as described in 40 CFR 60.104 (k)(1-4).	Compliance with this requirement is demonstrated by following the approved "Alternative Monitoring Plan for NSPS Subpart J Refinery Fuel Gas".
356			
NSPS Subpart J	40 CFR 60.107(e) & (f)	For periods where SO2 and/or H2S emissions data are unavailable, submit a signed/certified statement to indicate if changes were made in operation of the emissions control system which could affect the systems ability to meet applicable emission limits.	Compliance with this requirement is demonstrated by following the approved "Alternative Monitoring Plan for NSPS Subpart J Refinery Fuel Gas".
357			

Emission Source ID EU-30-015  
Source Description VOC Combustor for API Separator

Process Unit  
Sewer and WW-30

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart QQQ	40 CFR 60.692-5	Standard: Closed vent systems and Control devices.	Use compliance methods described in source #CG-WWT1. Follow all compliance methods for individual drains systems ( 60.692-2) listed for CG-WWT1. For oil water separators, follow all compliance methods for 60.692-3.

358

Applicable Requirement	Citation	Process Unit Steam Production-39 Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
Consent Decree	Paragraph 63	Restrict coal usage in the No. 1 boiler to 9,433 tons or less per year until additional coal usage is allowed under Paragraphs 64 and 65 of the Consent Decree.	Implement control technology to comply with the NOx reduction requirement and report the reduction and method used. Maintain records that demonstrate coal consumption is recorded and reported to KDHE.
359 Consent Decree	Paragraph 65	Beginning from 1/1/2007, coal usage may be increased to 15,416.5 tpy, and beginning from 1/1/2008, coal usage may be increased to 21,400 tpy, provided that NOx reduction is equal to or great than 53 tpy.	Maintain coal usage records and NOx emission records.
360 KAR - Particulate Matter Requirements	KAR 28-19-20	A person shall not cause or permit the emissions of particulate matter from this equipment in excess of the specified allowable amount as outlined in table P-1 of the regulation.	Maintain records that demonstrate particulate emissions are maintained below required limits by use of a Bag house. Maintain performance test results on file for review.
361 MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7495(b)	All existing boilers or process heaters must comply with this subpart no later than September 13, 2007.	Ensure compliance with this requirement within the date specified.
362 MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7500(a)(2)	Emissions from the coal fired boiler shall not exceed: 0.07 lb/MMBtu heat input for PM (or 0.001 lb/MMBtu for Total Selected Metals); 0.09 lb/MMBtu heat input HCl; 0.000009 lb/MMBtu heat input for Mercury.	Comply with the applicable work practice standards, operating procedures and limits, monitoring requirements and emission limits according to the requirements.
363 MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7500(a)(2)	For the fabric filter, install and operate a bag leak detection system according to § 63.7525 or ensure that opacity (6 minute avg.) is <20% except for one 6 minute period per hour not more than 27%.	Comply with the applicable work practice standards, operating procedures and limits, monitoring requirements and emission limits according to the requirements.
364 MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7500(a)(2)	For other control devices, ensure that opacity (6 minute avg.) is <20% except for one 6 minute period per hour not more than 27%.	Comply with the applicable work practice standards, operating procedures and limits, monitoring requirements and emission limits according to the requirements.
365			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7505(a)	Ensure compliance with the emission limits (including operating limits) and the work practice standards in this subpart at all times, except during periods of startup, shutdown, and malfunction.	Comply with the applicable work practice standards, operating procedures and limits, monitoring requirements and emission limits according to the requirements.
366			
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7505(b)	Always operate and maintain your affected source, including air pollution control and monitoring equipment, according to the provisions in §63.6(e)(1)(i).	Comply with the applicable work practice standards, operating procedures and limits, monitoring requirements and emission limits according to the requirements.
367			
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7505(c)	Demonstrate compliance with any applicable emission limit by either using fuel analysis to show emission rate calculated according to §63.7530(d) is less than the applicable emission limit, or using performance testing.	Perform initial compliance demonstration according to the applicable requirements and procedures for performance testing or fuel analysis options.
368			
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7505(d)	If compliance with any applicable emission limit is demonstrated through performance testing, develop a site-specific monitoring plan according to the requirements in paragraphs (d)(1) through (4) of this section.	Perform initial compliance demonstration according to the applicable requirements and procedures for performance testing or fuel analysis options.
369			
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7505(e)	If there is an applicable emission limit or work practice standard, develop and implement a written startup, shutdown, and malfunction plan (SSMP) according to the provisions in §63.6(e)(3).	Comply with the applicable work practice standards, operating procedures and limits, monitoring requirements and emission limits according to the requirements.
370			
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7510(a)	If performance testing is elected to demonstrate compliance, initial compliance includes performance tests (§63.7520 & Table 5), fuel analysis for each fuel (§63.7521 & Table 6), establishing operating limits & conducting CMS according to Table 7 & §63.7525.	Ensure compliance with this requirement within the date specified.
371			
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7510(b)	If fuel analysis is elected to demonstrate compliance, initial compliance requirement is fuel analysis for each type of fuel burned (§63.7521 and Table 6), & establish operating limits (§63.7530 and Table 8).	Comply with the applicable work practice standards, operating procedures and limits, monitoring requirements and emission limits according to the requirements.
372			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7515(a)-(d)	Performance tests must be conducted within 10-12 months of each other in case of noncompliance. If compliance is shown for 3 consecutive years, then the next performance test can be done within 36 months as long as compliance is demonstrated.	Perform continuous compliance demonstration according to the applicable requirements and procedures for performance testing or fuel analysis options.
373			
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7515(f)	Conduct a fuel analysis according to §63.7521 for each type of fuel no later than 5 years after the previous one. If a new type of fuel is burnt, conduct a fuel analysis before burning the new fuel. Also, continue to meet requirements of §63.7540.	Perform initial compliance demonstration according to the applicable requirements and procedures for performance testing or fuel analysis options.
374			
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7515(g)	Report the results within 60 days after the completion of the performance tests or fuel analyses. Report should verify that the operating limits have not changed or provide documentation of revised operating parameters according to §63.7530 & Table 7.	Submit all applicable reports according to the specified requirements.
375			
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7520(a)	If elected to demonstrate compliance by performance testing, conduct all performance tests according to §63.7(c), (d), (f), and (h). Also develop a site-specific test plan according to the requirements in §63.7(c).	Perform initial compliance demonstration according to the applicable requirements and procedures for performance testing or fuel analysis options.
376			
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7520(b)	Conduct each performance test according to the requirements in Table 5 to MACT Subpart DDDDD.	Perform continuous compliance demonstration according to the applicable requirements and procedures for performance testing or fuel analysis options.
377			
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7520(d)	Conduct performance test under specific conditions in Tables 5 and 7 to this subpart at the maximum normal operating load while burning fuel or mixture of fuels that have the highest content of Cl, Hg, or Total Selected Metals to demonstrate compliance.	Perform continuous compliance demonstration according to the applicable requirements and procedures for performance testing or fuel analysis options.
378			
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7520(e)	Performance tests need not be conducted during periods of startup, shutdown, or malfunction.	Perform continuous compliance demonstration according to the applicable requirements and procedures for performance testing or fuel analysis options.
379			
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7520(f)	Conduct three separate test runs for each performance test required in this section, as specified in §63.7(e)(3). Each test run must last at least 1 hour.	Perform continuous compliance demonstration according to the applicable requirements and procedures for performance testing or fuel analysis options.
380			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7520(g)	Use the F-Factor methodology and equations in sections 12.2 and 12.3 of EPA Method 19 of appendix A to part 60 of this chapter to convert measured concentrations to lb/MMBtu input emission rates to demonstrate compliance.	Perform continuous compliance demonstration according to the applicable requirements and procedures for performance testing or fuel analysis options.
381			
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7521(a)-(e)	If performing fuel analysis for compliance demonstration, conduct fuel analyses according to the procedures in 40 CFR 63.7521(a)-(e) and Table 6 to 40 CFR Subpart DDDDD, as applicable.	Perform continuous compliance demonstration according to the applicable requirements and procedures for performance testing or fuel analysis options.
382			
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7525(b)-(c)	If there is an applicable opacity operating limit, install, operate, certify and maintain each continuous opacity monitoring system (COMS) according to 40 CFR 63.7525(b), and for each CMS requirement, install, and operate CPMS according to 63.7525(c).	Install, operate, certify and maintain each required COMS, CPMS, measurement devices for flow, pressure, and pH, and sorbent injection rate monitor for the boiler according to the applicable requirements.
383			
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7525(d)-(i)	For required flow, pressure, pH measurement and sorbent injection rate monitoring devices, meet the operating requirements of 40 CFR 63.7525(d)-(h). If elected to use a baghouse leak detection system, meet the operating requirements of 40 CFR 63.7525(i).	Install, operate, certify and maintain each required COMS, CPMS, measurement devices for flow, pressure, and pH, and sorbent injection rate monitor for the boiler according to the applicable requirements.
384			
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7530(a)-(e)	Demonstrate initial compliance with emission limits and work practice standards according to 40 CFR 63.7530(a)-(d) and submit notification of compliance status according to 63.7545 (e).	Comply with the applicable work practice standards, operating procedures and limits, monitoring requirements and emission limits according to the requirements.
385			
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7535(a)-(c)	Ensure that data are monitored and collected to demonstrate continuous compliance according to the requirements in 40 CFR 63.7535(a)-(c).	Perform continuous compliance demonstration according to the applicable requirements and procedures for performance testing or fuel analysis options.
386			
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7540(a)-(d)	Demonstrate continuous compliance with emission limits and work practice standards according to 40 CFR 63.7540(a). Maintain report for each instance of non-compliance and operate according to SSMP as per 40 CFR 63.7540 (b)-(d)	Perform continuous compliance demonstration according to the applicable requirements and procedures for performance testing or fuel analysis options.
387			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT DDDDD - Boilers and Process Heaters 388	40 CFR 63.7545(a)-(b)(1)	Ensure that all initial notifications for boilers and heaters constructed before November 12, 2004 meet the requirements of 40 CFR 63.7545(a)-(b)(1).	Submit all applicable reports according to the specified requirements.
MACT DDDDD - Boilers and Process Heaters 389	40 CFR 63.7545(d)-(e)	Ensure that a Notification of Intent is submitted at least 30 days before an applicable performance test date per 40 CFR 63.7545(d). For an applicable initial compliance demonstration, submit a notification of compliance status per 40 CFR 63.7545(e).	Submit all applicable reports according to the specified requirements.
MACT DDDDD - Boilers and Process Heaters 390	40 CFR 63.7550(a)-(f)	Submit each applicable report in Table 9 of 40 CFR 63 Subpart DDDDD according to the applicable requirements in 40 CFR 63.7550(a)-(f).	Submit all applicable reports according to the specified requirements.
MACT DDDDD - Boilers and Process Heaters 391	40 CFR 63.7555(a)-(d); 63.7560(a)-(c)	Maintain all the applicable records according to requirements in 40 CFR 63.7555 (a)-(d). Ensure that the records are available for expeditious review and maintained at the facility for 5 years after the date of each reportable occurrence or action.	Maintain on site for review a copy of reports/notifications submitted to the Administrator for 5 years unless otherwise specified in the referenced citation.
NSPS Subpart A-General 392	40 CFR 60.13(f)	Ensure that all NSPS CMS are installed such that representative measurements of emissions or process parameters from the affected facility are obtained.	Maintain records of fuel-type usage. Compliance is presumed when using refinery fuel gas and/or natural gas as fuel. Maintain COM data when using coal. Compliance is presumed when opacity is less than 20%.
NSPS Subpart D 393	40 CFR 60.42(a)	Limit emissions of particulate matter to the atmosphere to 0.10 lb/MMBtu from this source.	Maintain particulate emissions below required limits. Verify emissions by means of emission calculation, stack testing, or monitoring.
NSPS Subpart D 394	40 CFR 60.42(a)(2)	Ensure that opacity from this source is not greater than 20% except for one 6-minute period per hour of not more than 27% opacity.	Maintain records that demonstrate the emission unit is equipped with a COM for opacity to show continuous compliance with the emission standard.
NSPS Subpart D 395	40 CFR 60.45(a)	Install, calibrate, maintain, and operate a continuous monitoring system for measuring the opacity of emissions, SO <sub>2</sub> , NO <sub>x</sub> , and either O <sub>2</sub> or CO <sub>2</sub> .	Install COMS and CEMS for SO <sub>2</sub> and O <sub>2</sub> . The CEMS for NO <sub>x</sub> is exempt per PSD Permit issued on 3/30/1978.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart D 396	40 CFR 60.45(e)	Ensure that all performance evaluations and calibration checks, as required, are performed according to 40 CFR 60.45(e)(1-5).	Maintain records that demonstrate performance evaluations are conducted as appropriate.
NSPS Subpart D 397	40 CFR 60.45(e)	Convert the continuous monitoring data (for NSPS Subpart D compliance) into units of the applicable standards according to the methods in 40 CFR 60.45(e).	Maintain records to demonstrate that CEMS data is converted, reduced, and maintained in accordance with the referenced citation.
NSPS Subpart D 398	40 CFR 60.45(g)	Submit excess emission & monitoring system performance reports to the Administrator every calendar quarter. Postmark by the 30th day following end of each calendar quarter. Reports shall include information specified in 40 CFR 60.45(g)(1-3).	Maintain copies of reports on site for at least 5 years from date of report.
NSPS Subpart D 399	40 CFR 60.46	In conducting the performance test for NSPS Subpart D compliance, use the methods specified in 40 CFR 60.46(a-d).	Maintain on site a copy of performance test reports that contain the procedures and conditions used for testing.
NSPS Subpart J 400	40 CFR 60.104(a)(1)	Fuel gas with H <sub>2</sub> S content in excess of 0.10 g/dscf shall not be burned in any fuel gas combustion device.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).
NSPS Subpart J 401	40 CFR 60.105(a)(5)(iv)	Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location (i.e., after one of the combustion devices), provided monitoring accurately represents SO <sub>2</sub> emissions into the atmosphere from each location.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).
PSD Air Permit, issued 3/30/78 402	Permit Condition No. 7 (Referencing 40 CFR 60 Subpart A)	Permit Condition #7 referencing NSPS general provisions.	NSPS general provision requirements are addressed under the "Facility-wide" section of this table.
PSD Air Permit, issued 3/30/78 403	Permit Condition No. 7 (referencing 40 CFR 60.45(a))	Install, calibrate, maintain, and operate a continuous monitoring system for opacity, SO <sub>2</sub> , and either oxygen or CO <sub>2</sub> for the coal fired boiler (EU-39-FH0027).	Maintain records to demonstrate that continuous monitoring systems have been installed and are operated, maintained, and calibrated according to manufacturer recommendations and regulatory guidelines.



Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
PSD Air Permit, issued 3/30/78 404	Permit Condition No. 7 (referencing 40 CFR 60.45(c))	Ensure that performance evaluations and calibration checks as required by 40 CFR 60.13(c&d) are performed using the procedures stated in 40 CFR 60.45(c)(1-5) for the coal fired boiler (EU-39-FH0027).	Maintain records that demonstrate performance evaluations are conducted as appropriate.
PSD Air Permit, issued 3/30/78 405	Permit Condition No. 7 (referencing 40 CFR 60.45(c))	Ensure that conversion procedures as outlined in 40 CFR 60.45(c)(1-2) are followed for all continuous monitoring systems installed under 40 CFR 60.45(a) for the coal fired boiler (EU-39-FH0027).	Maintain records to demonstrate that CEMS data is converted, reduced, and maintained in accordance with the referenced citation.
PSD Air Permit, issued 3/30/78 406	Permit Condition No. 7 (referencing 40 CFR 60.45(g))	Submit quarterly reports of excess emission and monitoring system performance postmarked by the 30th day following the end of each calendar quarter for the coal fired boiler (EU-39-FH0027).	Maintain on site for review a copy of reports/notifications submitted to the Administrator for 5 years unless otherwise specified in the referenced citation.
PSD Air Permit, issued 3/30/78 407	Permit Condition No. 7 (referencing 40 CFR 60.46)	Ensure that all performance tests, as required by 40 CFR 60.8, are conducted according to the procedures stated in 40 CFR 60.46 for the coal fired boiler (EU-39-FH0027).	Maintain on site a copy of performance test reports that contain the procedures and conditions used for testing.
PSD Air Permit, issued 3/30/78 408	Permit Requirement	Submit to KDHE on or before 9/1/78, evidence of coal supply contracts which demonstrate that the contract is adequate to ensure the quality and quantity of coal (i.e. sulfur content and BTU heating value) to be utilized and to ensure emission standards.	Maintain on site a copy of required data, reports, contracts and other documents specified in the referenced citation.
PSD Air Permit, issued 3/30/78 409	Permit Requirement	Ensure that the refinery gas fired in the coal fired boiler (EU-39-FH0027) does not have H2S content in excess of 0.10 grains/dscf	Use a SO2 Monitor on EU-03-FH0005 (a representative fuel gas combustion source) that records the emissions of SO2 to the atmosphere. Maintain records to demonstrate that H2S content of the fuel gas is within allowable limits.
PSD Air Permit, issued 3/30/78 410	Permit Requirement	Maintain SO2 content of 2.04 lbs/MMBtu of heat input when the boiler is fired with coal (EU-39-FH0027).	Maintain records of a CEM for SO2.
PSD Air Permit, issued 3/30/78 411	Permit Requirement	Maintain opacity standard from coal fired boiler (EU-39-FH0027) of 20% (except for one six minute period per hour of not more than 27%).	Maintain records of fuel-type usage. Compliance is presumed when using refinery fuel gas and/or natural gas as fuel. Maintain COM data when using coal.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
PSD Air Permit, issued 3/30/78 412	Permit Requirement	Submit to KDHE on or before 6/1/78, all technical data relating to the coal fired boilers selected to be installed.	Maintain on site a copy of required data, reports, contracts and other documents specified in the referenced citation.
PSD Air Permit, issued 3/30/78 413	Permit Requirement	Submit to KDHE on or before 9/1/78, copies of all technical data pertaining to PM emission control on the selected coal fired boilers, including guaranteed efficiency or emission rate, and major design parameters.	Maintain on site a copy of required data, reports, contracts and other documents specified in the referenced citation.
PSD Air Permit, issued 3/30/78 414	Permit Requirement	Demonstrate through source testing that operation of the coal fired boiler will be in compliance with the BACT emission limits listed in the PSD permit.	Maintain on site a copy of required data, reports, contracts and other documents specified in the referenced citation.
PSD Air Permit, issued 9/4/80 415	Permit Condition	Limit Particulate Matter emissions to the atmosphere to 0.10 lb/MMBtu heat input.	Maintain particulate emissions below required limits. Verify emissions by means of emission calculation, stack testing, or monitoring.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KDHE Construction Permit, issued 3/27/89	Permit Requirement	Ensure that all notifications and performance testing, as required by NSPS, are conducted as specified in 40 CFR Part 60 for EU-39-FH0028 (25A) and EU-39-FH0029 (26A).	Maintain on site a copy of notifications and performance test results, as appropriate, for at least 5 years from date of test or report.
416			
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7505(b)(1)	The affected boilers and heaters listed in §63.7506(b)(1) are subject to only the initial notification requirements in §63.9(b), and no other general requirements of 40 CFR 63 Subpart A.	Submit initial notification according to 40 CFR §63.9(b).
417			
NSPS Subpart Db	40 CFR 60.44b(a) & (h)	Combustion unit shall not emit NOx above 0.20 lbs/MMBtu at any time including periods of startup, shutdown, or malfunction.	Maintain CEM data to demonstrate compliance based on a 30-day rolling average.
418			
NSPS Subpart Db	40 CFR 60.44b(i)	Determine compliance with the NOx emission limit under this section using a 30-day rolling average basis.	Maintain CEM data to demonstrate compliance.
419			
NSPS Subpart Db	40 CFR 60.46b(e)(1)	Ensure that for the initial compliance test of the unit, NOx emissions are monitored for 30 successive days and the 30-day avg rate is used to determine compliance with NOx standards.	Maintain a copy of the performance test report on site for 5 years unless otherwise specified in the referenced citation.
420			
NSPS Subpart Db	40 CFR 60.46b(e)(4)	Following the date of the initial performance test, determine compliance with NOx limit on a continuous basis using of a 30-day rolling avg emission rate using a continuous system for monitoring NOx.	Maintain CEM data to demonstrate compliance.
421			
NSPS Subpart Db	40 CFR 60.48b(b) & (g)(1)	Install, calibrate, maintain, and operate a continuous monitoring system for measuring NOx emissions discharged to the atmosphere and record the output of the system.	Maintain CEM data to demonstrate compliance.
422			
NSPS Subpart Db	40 CFR 60.48b(c)	Ensure that data is recorded from the CEM system for NOx during all periods of operation of the facility except for CEM system breakdowns and repairs. Data is to be recorded during calibration checks, and zero and span adjustments.	Maintain CEM data to demonstrate compliance.
423			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart Db 424	40 CFR 60.48b(d)	Ensure that the 1-hr average NOx emissions rates measured by the CEM system are expressed in ng/l or lb/MMBtu heat input and are used to calculate the average emission rates.	Maintain CEM data to demonstrate compliance.
NSPS Subpart Db 425	40 CFR 60.48b(e)(2)	Ensure that the span value for NOx is 500 ppm.	Maintain CEM data to demonstrate compliance.
NSPS Subpart Db 426	40 CFR 60.48b(f)	During periods of CEM system breakdown repair or calibration, NOx emission data is to be collected using standby monitoring systems, Method 7, 7A, or other approved methods for a minimum of 75% of the operating hours in 22 out of 30 operating days.	Maintain on site for review records of NOx compliance during CEM system breakdown, repair or calibration.
NSPS Subpart Db 427	40 CFR 60.49b(a)	Submit to the Administrator, notification of the date of initial startup, as provided by 40 CFR 60.7 to include information specified in 40 CFR 60.49b(a)(1-4).	Maintain on site for review a copy of reports/notifications submitted to the Administrator for 5 years unless otherwise specified in the referenced citation.
NSPS Subpart Db 428	40 CFR 60.49b(b)	Submit to the Administrator, the performance test data from the initial test, and the performance evaluation of the CEM system using specification in Appendix B.	Maintain on site a copy of the performance test data submitted to the Administrator.
NSPS Subpart Db 429	40 CFR 60.49b(d)	Record and maintain (for at least 2 yrs) records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for each fuel type for each calendar quarter.	Maintain on site for review records for at least 5 years.
NSPS Subpart Db 430	40 CFR 60.49b(g)	Maintain records (for at least 2 yrs) of the data specified in 40 CFR 60.49b(g)(1-10) for each unit operating day to include emission rates, emission averages, unit ID, times when data have been excluded, etc.	Maintain on site for review records for at least 5 years.
NSPS Subpart Db 431	40 CFR 60.49b(h)	Submit a quarterly excess emission report or a semiannual report stating that no excess emissions occurred during the period.	Maintain on site for review a copy of reports/notifications submitted to the Administrator for 5 years unless otherwise specified in the referenced citation.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart Db  432	40 CFR 60.49b(i)	Submit a quarterly report containing the information recorded under 40 CFR 60.49b(g)(1-10). Report shall be postmarked by the 30th day following the end of each calendar quarter.	Maintain on site for review a copy of reports/notifications submitted to the Administrator for 5 years unless otherwise specified in the referenced citation.
NSPS Subpart Db  433	40 CFR 60.49b(o)	All records required under this section shall be maintained for at least 5 years following date of such record.	Maintain on site for review records for at least 5 years.
NSPS - Subpart Db  434	40 CFR 60.46b(c) & (e)	Determine compliance with the NOx emission limit by conducting an initial performance test as required under 40 CFR 60.8 as specified in 40 CFR 60.46b(e)(1).	Maintain a copy of the performance test report on site for 5 years unless otherwise specified in the referenced citation.
NSPS Subpart J  435	40 CFR 60.104(a)(1)	Fuel gas with H2S content in excess of 0.10 gr/dscf shall not be burned in any fuel gas combustion device.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).
NSPS Subpart J  436	40 CFR 60.105(a)(3)(iv)	Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location (i.e., after one of the combustion devices), provided monitoring accurately represents SO2 emissions into the atmosphere from each location.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KDHE Construction Permit, issued 3/27/89	Permit Requirement	Ensure that all notifications and performance testing, as required by NSPS, are conducted as specified in 40 CFR Part 60 for EU-39-FH0028 (25A) and EU-39-FH0029 (26A).	Maintain on site a copy of notifications and performance test results, as appropriate, for at least 5 years from date of test or report.
437			
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7505(b)(1)	The affected boilers and heaters listed in §63.7506(b)(1) are subject to only the initial notification requirements in §63.9(b), and no other general requirements of 40 CFR 63 Subpart A.	Submit initial notification according to 40 CFR §63.9(b).
438			
NSPS Subpart Db	40 CFR 60.44b(a) & (h)	Combustion unit shall not emit NOx above 0.20 lbs/MMBtu at any time including periods of startup, shutdown, or malfunction.	Maintain CEM data to demonstrate compliance based on a 30-day rolling average.
439			
NSPS Subpart Db	40 CFR 60.44b(i)	Determine compliance with the NOx emission limit under this section using a 30-day rolling average basis.	Maintain CEM data to demonstrate compliance.
440			
NSPS Subpart Db	40 CFR 60.46b(e)(1)	Ensure that for the initial compliance test of the unit, NOx emissions are monitored for 30 successive days and the 30-day avg rate is used to determine compliance with NOx standards.	Maintain a copy of the performance test report on site for 5 years unless otherwise specified in the referenced citation.
441			
NSPS Subpart Db	40 CFR 60.46b(e)(4)	Following the date of the initial performance test, determine compliance with NOx limit on a continuous basis using of a 30-day rolling avg emission rate using a continuous system for monitoring NOx.	Maintain CEM data to demonstrate compliance.
442			
NSPS Subpart Db	40 CFR 60.48b(b) & (g)(1)	Install, calibrate, maintain, and operate a continuous monitoring system for measuring NOx emissions discharged to the atmosphere and record the output of the system.	Maintain CEM data to demonstrate compliance.
443			
NSPS Subpart Db	40 CFR 60.48b(c)	Ensure that data is recorded from the CEM system for NOx during all periods of operation of the facility except for CEM system breakdowns and repairs. Data is to be recorded during calibration checks, and zero and span adjustments.	Maintain CEM data to demonstrate compliance.
444			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart Db 445	40 CFR 60.48b(d)	Ensure that the 1-hr average NOx emissions rates measured by the CEM system are expressed in ng/J or lb/MMBtu heat input and are used to calculate the average emission rates.	Maintain CEM data to demonstrate compliance.
NSPS Subpart Db 446	40 CFR 60.48b(e)(2)	Ensure that the span value for NOx is 500 ppm.	Maintain CEM data to demonstrate compliance.
NSPS Subpart Db 447	40 CFR 60.48b(f)	During periods of CEM system breakdown repair or calibration, NOx emission data is to be collected using standby monitoring systems, Method 7, 7A, or other approved methods for a minimum of 75% of the operating hours in 22 out of 30 operating days.	Maintain on site for review records of NOx compliance during CEM system breakdown, repair or calibration.
NSPS Subpart Db 448	40 CFR 60.49b(a)	Submit to the Administrator, notification of the date of initial startup, as provided by 40 CFR 60.7 to include information specified in 40 CFR 60.49b(a)(1-4).	Maintain on site for review a copy of reports/notifications submitted to the Administrator for 5 years unless otherwise specified in the referenced citation.
NSPS Subpart Db 449	40 CFR 60.49b(b)	Submit to the Administrator, the performance test data from the initial test, and the performance evaluation of the CEM system using specification in Appendix B.	Maintain on site a copy of the performance test data submitted to the Administrator.
NSPS Subpart Db 450	40 CFR 60.49b(d)	Record and maintain (for at least 2 yrs) records of the amounts of each fuel combusted during each day and calculate the annual capacity factor individually for each fuel type for each calendar quarter.	Maintain on site for review records for at least 5 years.
NSPS Subpart Db 451	40 CFR 60.49b(e)	Maintain records (for at least 2 yrs) of the data specified in 40 CFR 60.49b(g)(1-10) for each unit operating day to include emission rates, emission averages, unit ID, times when data have been excluded, etc.	Maintain on site for review records for at least 5 years.
NSPS Subpart Db 452	40 CFR 60.49b(h)	Submit a quarterly excess emission report or a semiannual report stating that no excess emissions occurred during the period.	Maintain on site for review a copy of reports/notifications submitted to the Administrator for 5 years unless otherwise specified in the referenced citation.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart Db  453	40 CFR 60.49b(i)	Submit a quarterly report containing the information recorded under 40 CFR 60.49b(g)(1-10). Report shall be postmarked by the 30th day following the end of each calendar quarter.	Maintain on site for review a copy of reports/notifications submitted to the Administrator for 5 years unless otherwise specified in the referenced citation.
NSPS Subpart Db  454	40 CFR 60.49b(o)	All records required under this section shall be maintained for at least 5 years following date of such record.	Maintain on site for review records for at least 5 years.
NSPS - Subpart Db  455	40 CFR 60.46b(c) & (e)	Determine compliance with the NOx emission limit by conducting an initial performance test as required under 40 CFR 60.8 as specified in 40 CFR 60.46b(e)(1).	Maintain a copy of the performance test report on site for 5 years unless otherwise specified in the referenced citation.
NSPS Subpart J  456	40 CFR 60.104(a)(1)	Fuel gas with H2S content in excess of 0.10 gr/dscf shall not be burned in any fuel gas combustion device.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).
NSPS Subpart J  457	40 CFR 60.105(a)(3)(iv)	Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location (i.e., after one of the combustion devices), provided monitoring accurately represents SO2 emissions into the atmosphere from each location.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).



		Process Unit Product Loading-96	
Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Loading	40 CFR 60.502(j) & 40 CFR 63.422	Each calendar month, inspect the vapor collection system, vapor processing system, and each loading rack handling gasoline tank truck for TOC liquid or vapor leaks. (Use sight, sound or smell for detection).	Inspect and record on a monthly basis the vapor collection system using sight, sound and smell to detect TOC liquid or vapor leaks.
458			
MACT Subpart CC - Loading	40 CFR 63.422 & 40 CFR 60.502 (a)	Equip with a vapor collection system designed to collect vapors from cargo tanks during loading.	Maintain records that demonstrate system is equipped with a vapor collection system that meet specifications of the referenced citation.
459			
MACT Subpart CC - Loading	40 CFR 63.422 & 40 CFR 60.502 (d)	Vapor collection system shall prevent TOC vapors collected at one loading rack from passing to another loading rack.	Maintain records that demonstrate system is equipped with a vapor collection system that meet specifications of the referenced citation.
460			
MACT Subpart CC - Loading	40 CFR 63.422 & 40 CFR 60.502 (e)(1)	Obtain vapor tightness documentation described in 40 CFR 60.502(b) for each truck to be loaded.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
461			
MACT Subpart CC - Loading	40 CFR 63.422 & 40 CFR 60.502 (e)(2)	Record each cargo tank I.D. number as it is loaded	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
462			
MACT Subpart CC - Loading	40 CFR 63.422 & 40 CFR 60.502 (e)(4)	Notify the owner/operator of each non vapor-tight tank within 3 weeks of loading.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
463			
MACT Subpart CC - Loading	40 CFR 63.422 & 40 CFR 60.502 (f)	Assure loading occurs only into tanks equipped with compatible equipment to the vapor collection system.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
464			
MACT Subpart CC - Loading	40 CFR 63.422 & 40 CFR 60.502 (g)	Assure cargo tank is connected to vapor collection system during each loading.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
465			

		Process Unit Product Loading-96		
Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting	
MACT Subpart CC - Loading 466	40 CFR 63.422 & 40 CFR 60.502 (h)	Prevent gauge pressure in cargo tank from exceeding 450mm of water during loading	Maintain records to demonstrate measurements follow procedures specified in 40 CFR 60.503(d).	
MACT Subpart CC - Loading 467	40 CFR 63.422 & 40 CFR 60.502 (i)	No pressure-vacuum vent in the vapor collection system shall open at a pressure <450mm of water.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.	
MACT Subpart CC - Loading 468	40 CFR 63.422(c)(2) & 40 CFR 60.502 (e)(5)	Ensure that non-vapor-tight gasoline cargo tanks will not be reloaded at the facility until 40 CFR 63.422(c)(2)(i-ii) are met.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.	
MACT Subpart CC - Loading 469	40 CFR 63.425(a)	Conduct a performance test on the vapor processing system in accordance with 40 CFR 60.8 & 63.425(b) as allowed by 40 CFR 60.503 except a reading of 500 ppm is used to determine leaks to be repaired under 40 CFR 60.503(b).	Maintain on site for review a copy of reports/notifications submitted to the Administrator for 5 years unless otherwise specified in the referenced citation.	
MACT Subpart CC - Loading 470	40 CFR 63.425(e)(1)	Perform an annual certification test for all gasoline cargo tanks according to Method 27, Appendix A, 40 CFR 60 using the guidelines in 40 CFR 63.425(e)(1).	Maintain on site for review a copy of all test results provided by the cargo tank owner/operator.	
MACT Subpart CC - Loading 471	40 CFR 63.428(b)(1-2)	Maintain records of the test results for each gasoline cargo tank loading at the facility including the annual certification testing and the continuous performance testing.	Maintain on site for review a copy of all test results provided by the cargo tank owner/operator.	
MACT Subpart CC - Loading 472	40 CFR 63.428(b)(3)	Maintain an up-to-date documentation file for each gasoline cargo tank loading at the facility. It shall include the information specified in 40 CFR 63.428(b)(3)(i-viii).	Maintain on site for review a copy of all test results provided by the cargo tank owner/operator.	
MACT Subpart CC - Loading 473	40 CFR 63.428(g)(1)	Submit a semiannual report to the Administrator which includes information on each loading of a cargo tank without vapor tightness documentation.	Maintain on site for review a copy of reports/notifications submitted to the Administrator for 5 years unless otherwise specified in the referenced citation.	

Emission Source ID EU-96-900  
Source Description Gasoline Loading Rack

Process Unit  
Product Loading-96

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Loading	40 CFR 63.428(h)(1-3)	Submit an excess emissions report to the Administrator to include each failure to maintain the operating parameter value, each instance of non-vapor-tight cargo tank loading, and each reloading of non-vapor-tight tank without documentation.	Maintain on site for review a copy of reports/notifications submitted to the Administrator for 5 years unless otherwise specified in the referenced citation.
474			
MACT Subpart CC - Loading	40 CFR 63.650(a)	This gasoline loading rack is classified under SIC code 2911 that is part of a petroleum refinery shall comply with Subpart R requirements specified in Subpart CC.	Maintain records to demonstrate rack is SIC Code 2911 and part of a refinery.
475			
MACT Subpart CC-Loading	40 CFR 63.422 & 40 CFR 60.502(e)(3)	Cross check cargo tank I.D. number from (e)(2) with vapor tightness within 2 weeks of loading.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
476			
MACT Subpart CC-Loading	40 CFR 63.422(a)	Comply with the requirements in 40 CFR 60.502 except for paragraphs (b), (c), or (j) of that section.	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
477			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
Consent Decree 478	Appendix 3 Item 10	The Loading rack flare is subject to NSPS Subpart J.	Monitor flare pilot light and the AMP as required.
KAR-Opacity 479	KAR 28-19-650 (a)(3)	No person shall cause or permit visible contaminant emissions from the processing of any materials or other use of any process which is equal or exceeds 20 % opacity.	Maintain records that demonstrate this source is in clean fuel service. Compliance is presumed by using refinery fuel gas and/or natural gas as a fuel.
MACT Subpart CC - Loading 480	40 CFR 63.422(b)	Maintain a TOC emission limit of 10 mg/liter of gasoline loaded.	Compliance with the TOC emission limit is demonstrated by the flare CMS (flare sensor) and the performance test is on file for review.
MACT Subpart CC - Loading 481	40 CFR 63.425(b)(1)	During the performance test, continuously record the operating parameter established for the appropriate vapor processing system under 40 CFR 63.427(a).	Maintain records that demonstrate the required flare CMS data was collected.
MACT Subpart CC - Loading 482	40 CFR 63.425(b)(2)(3)	Determine operating parameter value. Provide KDHE with the rationale for the selected value, monitoring frequency, and averaging time (including data and calculations used to develop the value) and a description of how these demonstrate compliance.	Maintain on site for review a copy of the flare CMS data submitted to obtain approval.
MACT Subpart CC - Loading 483	40 CFR 63.425(c)	For performance tests performed after the initial test, document the reasons for any change in the operating parameter value since the previous performance test.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
MACT Subpart CC - Loading 484	40 CFR 63.427(a)	Calibrate, certify, and maintain a CMS according to manufacturer specifications.	Maintain records that demonstrate the CMS is operated according to manufacturer specifications.
MACT Subpart CC - Loading 485	40 CFR 63.427(a)(4)	Install a heat-sensing device, such as an ultraviolet beam sensor or a thermocouple, in proximity to the pilot light of the flare to indicate the presence of a flame.	Maintain records that demonstrate an ultraviolet beam sensor or thermocouple is installed on the flare to indicate presence of a flame.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Loading	40 CFR 63.427(b)	Operate the vapor processing system in a manner not to exceed (or go below) the operating parameter value established in the performance test.	Maintain records that demonstrate the operating parameter value is monitored continuously to ensure compliance.
486			
MACT Subpart CC - Loading	40 CFR 63.428(c)(1)	Maintain records of all continuous monitoring data required by this regulation to include the time intervals during which loadings of gasoline cargo tanks occurred, or record the operating parameter data only during such loadings.	Maintain on site for review required records for 5 years unless otherwise specified by the referenced citation.
487			
MACT Subpart CC - Loading	40 CFR 63.428(c)(2)(ii)(A-B)	Record and report simultaneously with the notification of compliance status, the flare design, all visible emission readings, heat content determinations, flow rate measurements, and exit velocity determinations, made during compliance determinations.	Maintain on site for review a copy of reports/notifications submitted to the Administrator for 5 years unless otherwise specified in the referenced citation.
488			
NSPS Subpart J	40 CFR 60.104(a)(1)	Fuel gas with H <sub>2</sub> S content in excess of 0.10 gr/dscf shall not be burned in any fuel gas combustion device.	Compliance with this requirement is demonstrated by following the approved "Alternative Monitoring Plan for NSPS Subpart J Refinery Fuel Gas" dated 4/10/00.
489			
NSPS Subpart J	40 CFR 60.105(a)(3)	Install, calibrate, maintain, and operate continuously, an instrument to monitor the concentration by volume of SO <sub>2</sub> emissions into the atmosphere or install an H <sub>2</sub> S monitor as specified in 40 CFR 60.105(a)(4).	Compliance with this requirement is demonstrated by following the approved "Alternative Monitoring Plan for NSPS Subpart J Refinery Fuel Gas" dated 4/10/00.
490			
NSPS Subpart J	40 CFR 60.105(a)(3) (i-iv) & (a)(4)(i-iii)	For an SO <sub>2</sub> and/or H <sub>2</sub> S monitor on fuel gas combustion devices, ensure that the monitor operates according to the span values, monitoring levels, and performance specifications outlined in 40 CFR 60.105(a)(3)(i-iv) and/or (a)(4)(i-iii).	Compliance with this requirement is demonstrated by following the approved "Alternative Monitoring Plan for NSPS Subpart J Refinery Fuel Gas" dated 4/10/00.
491			
NSPS Subpart J	40 CFR 60.105(c)(3)	For purposes of reporting under 40 CFR 60.7(c), ensure that periods of excess emissions are reported using the guidelines outlined in 40 CFR 60.105(e)(3).	Compliance with this requirement is demonstrated by following the approved "Alternative Monitoring Plan for NSPS Subpart J Refinery Fuel Gas" dated 4/10/00.
492			
NSPS Subpart J	40 CFR 60.106(a) & (e)	In conducting performance tests required in 40 CFR 60.8, use the reference methods and procedures in Appendix A of Part 60 or other methods and procedures specified in 40 CFR 60.106 (e)	Compliance with this requirement is demonstrated by following the approved "Alternative Monitoring Plan for NSPS Subpart J Refinery Fuel Gas" dated 4/10/00.
493			

Emission Source ID EU-96-901  
Source Description VOC Combustor - New Loading Rack

Process Unit  
Product Loading-96

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart J  494	40 CFR 60.107(e) & (f)	For periods where SO2 and/or H2S emissions data are unavailable, submit a signed/certified statement to indicate if changes were made in operation of the emissions control system which could affect the systems ability to meet applicable emission limits.	Compliance with this requirement is demonstrated by following the approved "Alternative Monitoring Plan for NSPS Subpart J Refinery Fuel Gas" dated 4/10/00.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
Consent Decree 495	Appendix 3 Item 1	Limit crude oil processed in No. 1 and No. 2 Crude Units to 115,000 barrels per stream day (BPSD) and 112,000 barrels per calendar day (BPCD).	Maintain records of crude oil throughput in No. 1 and No. 2 Crude Units.
Consent Decree 496	Consent Decree Paragraph 51.B	Prior to the Consent Decree termination, if the refinery's TAB is equal to or greater than 10 Mg/yr, comply with the compliance option set forth in 40 CFR §61.342(e).	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
Consent Decree 497	Consent Decree Paragraph 51.D.iv	If the TAB is = or > 10 Mg/yr, within 30 days after completion of the requirements of Paragraph 51.J.vi, submit a report that refinery complies with the 6 BQ Compliance Option to the EPA Region 7 and KDHE.	Submit a report to the EPA Region 7 and KDHE that refinery complies with the Benzene Waste NESHAP.
Consent Decree 498	Consent Decree Paragraph 51.E	Establish an annual program of reviewing process information for the refinery, including but not limited to construction projects, to include all new benzene waste streams in the refinery waste stream inventory.	Maintain records to demonstrate that new benzene waste stream are included in the refinery's waste stream inventory.
Consent Decree 499	Consent Decree Paragraph 51.F	Review each spill at the refinery to determine if benzene waste was regenerated, and include benzens generated by such spills in the TAB for the refinery.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
Consent Decree 500	Consent Decree Paragraph 51.G.i	Develop and implement a training program for all employees asked to draw benzene waste samples.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
Consent Decree 501	Consent Decree Paragraph 51.G.ii	If the TAB is = or > 10 Mg/yr, develop standard operating procedures for all control requirements used to comply with the Benzene NESHAP.	Maintain records to demonstrate compliance unless otherwise specified in the reference citation.
Consent Decree 502	Consent Decree Paragraph 51.G.ii	If the TAB is = or > 10 Mg/yr, train all operators prior to assigned to this equipment. Propose a schedule for initial and periodic operator training in a plan for compliance with the 6 BQ compliance option.	Maintain records to demonstrate compliance unless otherwise specified in the reference citation.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
Consent Decree 503	Consent Decree Paragraph 51.G.iii	Ensure that employees of any contractors hired to draw benzene waste sample or operate Benzene NESHAP control equipment are properly trained.	Maintain records to demonstrate compliance unless otherwise specified in the reference citation.
Consent Decree 504	Consent Decree Paragraph 51.H.ii	If and when the refinery's TAB reaches 10 Mg/yr and a compliance strategy is approved, all waste management units handling "organic" benzene wastes shall meet applicable control standards of Benzene NESHAP.	Maintain records to demonstrate compliance unless otherwise specified in the reference citation.
Consent Decree 505	Consent Decree Paragraph 51.H.ii	If and when the refinery's TAB reaches 10 Mg/yr and a compliance strategy is approved, if controls not already in place, develop a schedule for approval, not to exceed two years, for completion of the installation of the necessary controls.	Develop a schedule for approval, not to exceed two years, for completion of the installation of the necessary controls.
Consent Decree 506	Consent Decree Paragraph 51.H.iii	Include in the refinery's TAB all waste/slop/off-spec oil streams that become "aqueous" until such streams are recycled to a process or put into a process feed tank.	Maintain records to demonstrate compliance unless otherwise specified in the reference citation.
Consent Decree 507	Consent Decree Paragraph 51.H.iv	Within 90 days after EPA has approved the schematics required under Paragraph 51.H.i of the Consent Decree, submit a plan(s) to quantify waste/slop/off-spec oil movements for all benzene waste streams which are not controlled.	Submit a plan(s) to quantify waste/slop/off-spec oil movements for all benzene waste streams which are not controlled.
Consent Decree 508	Consent Decree Paragraph 51.H.iv	Upon approval of plan required in Paragraph 51.H.iv, maintain records quantifying oil movements.	Maintain records upon plan approval.
Consent Decree 509	Consent Decree Paragraph 51.I.i	If the TAB is = or > 10 Mg/yr, submit a plan(s) for approval for an "end of line" ("EOL") determination of the benzene quantity in uncontrolled waste streams within 60 days after submittal of the certification under Paragraph 51.D.iv.	Submit a plan(s) for approval for an "end of line" determination of the benzene quantity in uncontrolled waste streams.
Consent Decree 510	Consent Decree Paragraph 51.I.ii	Submit a revised plan to EPA for approval and a copy to KDHE, if any changes in processes, operations, or other factors that lead to inaccurate measure of the EOL benzene quantity.	Submit a revised plan for EOL determination to EPA for approval, and a copy to KDHE.



Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
Consent Decree 511	Consent Decree Paragraph 51.I.iii - viii	If the TAB is = or > 10 Mg/yr, commencing during the first full calendar quarter after receipt of written approval of EOL sampling plan, conduct monthly EOL sampling according to Paragraphs 51.I.iii - viii.	Conduct EOL sampling on a monthly basis commencing during the first full calendar quarter after receipt of written approval of EOL sampling plan.
Consent Decree 512	Consent Decree Paragraph 51.I.vii	If the TAB is = or > 10 Mg/yr, advise EPA any event that can attribute to elevated benzene quantities.	Advise EPA any event that can attribute to elevated benzene quantities.
Consent Decree 513	Consent Decree Paragraph 51.I.vii	If the TAB is = or > 10 Mg/yr, calculate projected uncontrolled Bz quantity for the year in which the event attributed to elevated Bz quantities occurs. If the projection is > 6 Mg/yr, submit to EPA for approval a plan as required in Paragraph 51.I.vii.	If the projected benzene quantity is > 6 Mg/yr, submit to EPA for approval a plan as required in Paragraph 51.I.vii.
Consent Decree 514	Consent Decree Paragraph 51.I.viii	If the Bz quantity in 3 consecutive quarters, prorated on a yearly basis, will exceed 4.8 Mg, or projected uncontrolled Bz will exceed 6 Mg/yr, in the 4th quarter, submit a proposal per Paragraph 51.I.viii.	Submit a proposal as required in Paragraph 51.I.viii.
Consent Decree 515	Consent Decree Paragraph 51.I.viii	Within 30 days of receipt of the results of the contractor's TAB Study and Compliance Review, submit the results to the EPA Region 7 and KDHE.	Submit the results of the contractor's TAB Study and Compliance Review to the EPA Region 7 and KDHE within 30 days of receipt.
Consent Decree 516	Consent Decree Paragraph 51.I.viii	Within 30 days of EPA's receipt of the proposal required in Paragraph 51.I.viii and does not disapprove or seek modifications, authorize contractor to work.	Authorize contractor to work within 30 days of EPA's receipt of the proposal and does not disapprove or seek modifications.
Consent Decree 517	Consent Decree Paragraph 51.I.viii	Within 120 days of receipt of the results of the TAB Study, or a schedule agreed upon by CRRM and EPA, submit to EPA for approval, and a copy to KDHE, a plan that addresses any deficiencies identified in the TAB Study, and by EPA.	Submit to EPA for approval a plan that addresses any deficiencies identified in the contractor's TAB Study, and identified by EPA. Submit a copy of the plan to KDHE.
Consent Decree 518	Consent Decree Paragraph 51.I.viii	If the Bz quantity in 3 consecutive quarters, prorated on a yearly basis, will exceed 4.8 Mg, or projected uncontrolled Bz will exceed 6 Mg/yr, in the 4th quarter, retain a 3rd party contractor to undertake a comprehensive TAB study and compliance review.	Retain a third party contractor to undertake a comprehensive TAB study and compliance review.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
Consent Decree 519	Consent Decree Paragraph 51.I.viii	Certify of Compliance with the approved plan required in Paragraph 51.I.iii according to Paragraph 51.D.iv.	Submit a report to the EPA Region 7 and KDHE that refinery complies with the Benzene Waste NESHAP.
Consent Decree 520	Consent Decree Paragraph 51.J.i	Once calendar year, conduct sampling per 40 CFR 61.355(c)(1) and (3), of all waste streams containing Bz that contributed $\geq 0.05$ Mg/yr to the final BWN Compliance Review and Verification Report's TAB or in the previous year's TAB, whichever is later.	Conduct sampling once per year as required.
Consent Decree 521	Consent Decree Paragraph 51.J.ii	No later than 60 days after EPA, KDHE have met with CRRM, submit a plan to EPA for approval that contains proposed sampling locations and methods for flow calculations to be used in the EOL determination. Submit a copy of the plan to KDHE.	Submit a plan to EPA for approval and a copy to KDHE that contains proposed sampling locations and methods for flow calculations to be used in the EOL determination.
Consent Decree 522	Consent Decree Paragraph 51.J.iii	On a quarterly basis commencing during the first full calendar quarter after receipt of written approval of EOL sampling plan, conduct EOL sampling per Paragraphs 51.J.iii. Calculate the quarterly EOL quantity based on the sampling results.	Conduct EOL sampling on a quarterly basis commencing during the first full calendar quarter after receipt of written approval of EOL sampling plan.
Consent Decree 523	Consent Decree Paragraph 51.J.iv	If the quarterly EOL benzene quantity exceeds 2.5 Mg, submit to the EPA Region 7 and KDHE and plan to ensure that the TAB does not exceed 10 Mg/yr.	Submit to the EPA Region 7 and KDHE and plan to ensure that the TAB does not exceed 10 Mg/yr, if the quarterly EOL benzene quantity exceeds 2.5 Mg.
Consent Decree 524	Consent Decree Paragraph 51.J.v	Based on the quarterly EOL determination, if the projected TAB equals or exceeds 10 Mg/yr, submit to the EPA Region 7 and KDHE within 30 days of the end of the quarter a plan to ensure that the TAB does not exceed 10 Mg/yr.	Submit to the EPA Region 7 and KDHE within 30 days of the end of the quarter a plan to ensure that the TAB does not exceed 10 Mg/yr.
Consent Decree 525	Consent Decree Paragraph 51.J.vi	Authorize contractor to commence work within 30 days of EPA's receipt of the proposal submitted per Paragraph 51.J.vi and does not disapprove or seek modifications.	Authorize contractor to commence work within 30 days of EPA's receipt of the proposal and does not disapprove or seek modifications.
Consent Decree 526	Consent Decree Paragraph 51.J.vi	Within 120 days of receipt of the results of the TAB Study, or a schedule agreed upon by CRRM and EPA, submit to EPA for approval, and a copy to KDHE, a plan that contains a strategy and schedule for implementing the 6 BQ Compliance Option.	Submit to EPA for approval a plan that contains a strategy and schedule for implementing the 6 BQ Compliance Option. Submit a copy of the plan to KDHE.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
Consent Decree 527	Consent Decree Paragraph 51.J.vi	If appropriate actions cannot be taken to ensure the TAB be < 10 Mg/yr, at a mutually agreed upon date, submit a proposal per Paragraph 51.J.vi.	Submit a proposal as required in Paragraph 51.J.vi.
Consent Decree 528	Consent Decree Paragraph 51.K.i	Comply with Benzene NESHAP provisions for ground water remediation conveyance systems, if the refinery has such a system.	Maintain records to demonstrate compliance unless otherwise specified in the reference citation.
Consent Decree 529	Consent Decree Paragraph 51.K.ii.a	If the TAB is = or > 10 Mg/yr, and after the refinery has completed implementation of an approved compliance plan required by Paragraph 51.J.vi, conduct monthly visual inspections of all water traps within the individual drain systems at the refinery.	Maintain records to demonstrate compliance unless otherwise specified in the reference citation.
Consent Decree 530	Consent Decree Paragraph 51.K.ii.b	If the TAB is = or > 10 Mg/yr, and after completed implementation of an approved compliance plan, conduct weekly visual inspections of all conservation vents or indicators on process sewers for detectable leaks.	Maintain records to demonstrate compliance unless otherwise specified in the reference citation.
Consent Decree 531	Consent Decree Paragraph 51.K.ii.b	If the TAB is = or > 10 Mg/yr, and after completed implementation of an approved compliance plan, reset any vents where leaks are detected, and record the results of all inspections.	Submit a report to the EPA Region 7 and KDHE that refinery complies with the Benzene Waste NESHAP.
Consent Decree 532	Consent Decree Paragraph 51.K.ii.c	If the refinery's TAB reaches or exceeds 10 Mg/yr, and after the refinery has completed implementation of an approved compliance plan required by Paragraph 51.J.vi, identify and mark all area drains that are segregated stormwater drains.	Maintain records to demonstrate compliance unless otherwise specified in the reference citation.
Consent Decree 533	Consent Decree Paragraph 51.L	Within 60 days of receipt of information indicating the refinery's TAB reaches or exceeds 10 Mg/yr, meet with EPA to discuss and establish projects or investigation relating to Benzene NESHAP.	Meet with EPA to discuss and establish projects or investigation relating to Benzene NESHAP.
Consent Decree 534	Consent Decree Paragraph 51.M.i	Maintain appropriate records as required in Paragraph 51.M of the Consent Decree.	Submit a report to the EPA Region 7 and KDHE that refinery complies with the Benzene Waste NESHAP.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
Consent Decree 535	Consent Decree Paragraph 51.M.ii.a	Submit appropriate reports as required in Paragraph 51.M.ii.a of the Consent Decree.	Submit reports as appropriate.
Consent Decree 536	Consent Decree Paragraph 51.M.ii.b	Submit in the Quarterly Progress Report a description of measures to comply with training provisions in Paragraph 51.G, the results of three months of monthly EOL, and the results of >0.05 or >0.03 sampling as required.	Submit reports as appropriate.
Consent Decree 537	Consent Decree Paragraph 51.N	All required reports, plans and certifications shall be submitted to EPA Region 7 and to KDHE.	Submit all reports, plans, and certifications to EPA Region 7 and KDHE.
Consent Decree 538	Paragraph 59	By the completion of next turnaround or December 31, 2006, whichever is earlier, install rupture disks prior to all pressure relief valves (PRVs) routed to a common flare header subject to NSPS GGG. Submit a complete list of installations to EPA and KDHE.	Install rupture disks on all PRVs prior to routing to a common flare header by 12/31/2006 or next turnaround, and submit a list of the PRVs that are required rupture disks installed by 2/1/2007.
MACT Subpart CC-General Provisions 539	40 CFR 63.642	Comply with all the general provisions of MACT Subpart CC as applicable.	Comply with all the general provisions of MACT Subpart CC as applicable.
MACT Subpart CC-General Provisions 540	40 CFR 63.642(c)	Comply with the provisions of Subpart A of this part as specified in Table 6 of Subpart CC.	Incorporated by reference the provisions of Subpart A of 40 CFR Part 63, as outlined in Table 6 of Subpart CC.
MACT Subpart EEEE 541	40 CFR 63.2346(d)	Each transport vehicle subject to MACT EEEE shall comply with the requirements of 40 CFR 63.2346(d)(1) or (2), as applicable.	Comply with the requirements of 40 CFR 63.2346(d)(1) or (2), as applicable.
MACT Subpart UUU 542	40 CFR 63.1577	Comply with the provisions of Subpart A of this part as specified in Table 44 of Subpart UUU.	Incorporated by reference the provisions of Subpart A of 40 CFR Part 63, as outlined in Table 44 of Subpart UUU.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NESHAP Subpart A-General 543	40 CFR 61.01-.19	Comply with all the general provisions of NESHAP Subpart A as applicable.	Comply with all the general provisions of NESHAP Subpart A as applicable.
NESHAP Subpart FF 544	40 CFR 61.355(a-c)	Determine the total annual benzene (TAB) quantity from facility waste using the procedure outlined in 40 CFR 61.355(a-c).	Perform total annual benzene calculations in accordance with 40 CFR 61.355(a-c) and maintain on site a copy of calculation documents for at least 5 years unless otherwise specified in the referenced citation.
NESHAP Subpart FF 545	40 CFR 61.356(c)	If benzene waste is transferred off site to another facility for treatment (to comply with NESHAP FF), maintain documentation for each off site waste shipment that includes the information specified in 40 CFR 61.356(c).	Maintain on site for review required records for 5 years unless otherwise specified by the referenced citation.
NESHAP Subpart FF 546	40 CFR 61.356(b)	Maintain records that identify each waste stream at the facility subject to NESHAP Subpart FF and indicate whether or not the stream is controlled in accordance with this Subpart.	Maintain records of all NESHAP Subpart FF waste streams.
NESHAP Subpart FF 547	40 CFR 61.357(c)	Annually and whenever there is a change in the process generating the waste stream that could increase the TAB to >10 MG/YR, update the initial NESHAP Subpart FF report submitted to the Administrator.	Maintain on site for review a copy of reports/notifications submitted to the Administrator for 5 years unless otherwise specified in the referenced citation.
NSPS Subpart A-General 548	40 CFR 60.01-.19	Comply with all the general provisions of NSPS Subpart A as applicable.	Comply with all the general provisions of NSPS Subpart A as applicable.

Emission Source ID FS-03-001  
Source Description Crude Unit No. 1 Fugitives

Process Unit  
No 1 Crude Unit-03

CLASS 1 OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement Citation

Operating Limitation Or Condition

Monitoring, Performance Test, Recordkeeping and  
Reporting

Consent Decree  
549

Appendix 3 Item 3(b)

#1 Crude Unit is subject to equipment controls and fugitive  
emission monitoring requirements in NSPS Subpart VV/GGG.

Monitor fugitive components, maintain records, and report as  
required.

Emission Source ID FS-03-0047  
Source Description Crude Tower Off-Gas Compressor Fugitives

Process Unit  
No 1 Crude Unit-03

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
Consent Decree 550	Appendix 3 Item 14(f)	Crude Tower Off-Gas Compressor is subject to NSPS Subpart VV/GGG.	Monitor fugitive components, maintain records, and report as required.

Emission Source ID FS-04-001  
Source Description Vacuum Unit No. 1 Fugitives

Process Unit  
No 1&2 Vacuum Unit-04

CLASS 1 OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement Citation

Operating Limitation Or Condition

Monitoring, Performance Test, Recordkeeping and Reporting

KAR-Opacity

KAR 28-19-650(a)(2)

No person shall cause or permit visible contaminant emissions from the processing of any materials or other use of any process which equals or exceeds opacity of 40%.

Maintain records when opacity from the source is in above 40% limit. Compliance with this regulation is presumed during normal operations.

551



Emission Source ID FS-05-001  
Source Description Vacuum Unit No. 3 Fugitives

Process Unit  
No 3 Vacuum Unit-05

CLASS 1 OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
Consent Decree 552	Appendix 3 Item 12	#3 Vacuum Unit is subject to NSPS Subpart VV/GGG.	Monitor fugitive components, maintain records, and report as required.

Emission Source ID FS-06-001  
Source Description Crude Unit No. 2 Fugitives

Process Unit  
No 2 Crude Unit-06

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
Consent Decree 553	Appendix 3 Item 14(a)	#2 Crude Unit is subject to NSPS Subpart VV/GGG.	Monitor fugitive components, maintain records, and report as required.

Emission Source ID FS-08-001  
Source Description #1 HDS Unit Fugitives

Process Unit  
HDS Unit-08

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
Consent Decree 554	Appendix 3 Item 14(c)	#1 HDS Unit is subject to NSPS Subpart VV/GGG.	Monitor fugitive components, maintain records, and report as required.

Emission Source ID FS-09-001  
Source Description Hydrobon Unit Fugitives

Process Unit  
Hydrobon Unit-09

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement Citation

Operating Limitation Or Condition

Monitoring, Performance Test, Recordkeeping and Reporting

Consent Decree  
555

Appendix 3 Item 3(d)  
and 14(d)

Hydrobon Unit is subject to equipment controls and fugitive  
emission monitoring requirements in NSPS Subpart VV/GGG.

Monitor fugitive components, maintain records, and report as  
required.

Emission Source ID FS-10-001  
Source Description Platformer Unit Fugitives

Process Unit  
Platformer Unit-10

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
Consent Decree 556	Appendix 3 Item 3(e)	Platformer is subject to equipment controls and fugitive emission monitoring requirements in NSPS Subpart VV/GGG.	Monitor fugitive components, maintain records, and report as required.

Emission Source ID FS-11-001  
Source Description Unifiner Fugitives

Process Unit  
Unifiner-11

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement Citation

Operating Limitation Or Condition

Monitoring, Performance Test, Recordkeeping and  
Reporting

KAR-Opacity

KAR 28-19-650(a)(2)

No person shall cause or permit visible contaminant emissions from the processing of any materials or other use of any process which equals or exceeds opacity of 40%.

Maintain records when opacity from the source is in above 40% limit. Compliance with this regulation is presumed during normal operations.

557

Emission Source ID FS-12-001  
Source Description Coker Unit Fugitives

Process Unit  
Coker-12

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
Consent Decree 558	Appendix 3 Item 3(g)	Coker Unit is subject to equipment controls and fugitive emission monitoring requirements in NSPS Subpart VV/GGG.	Monitor fugitive components, maintain records, and report as required.

Emission Source ID FS-13-001  
Source Description FCC Unit Fugitives

Process Unit  
Cat Cracking-13

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
Consent Decree 559	Appendix 3 Item 3(f)	FCCU is subject to equipment controls and fugitive emission monitoring requirements in NSPS Subpart VV/GGG.	Monitor fugitive components, maintain records, and report as required.



Emission Source ID FS-20-001  
Source Description Jet Fuel Unit Fugitives

Process Unit  
Jet Fuel Treating-20

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
Consent Decree 560	Appendix 3 Item 3(a)	The Merox Jet Fuel Treating is subject to equipment controls and fugitive emission monitoring requirements in NSPS VV/GGG.	Monitor fugitive components, maintain records, and report as required.

Emission Source ID FS-22-001  
Source Description Sat Gas Unit Fugitives

Process Unit  
Sat Gas Unit-22

CLASS I OPERATING PERMIT  
Source ID No. 1250903  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
Consent Decree 561	Appendix 3 Item 14(b)	Sat Gas Unit is subject to NSPS Subpart VV/GGG.	Monitor fugitive components, maintain records, and report as required.

Emission Source ID FS-96-001  
Source Description Product Loading Fugitives

Process Unit  
Product Loading-96

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement Citation

Operating Limitation Or Condition

Monitoring, Performance Test, Recordkeeping and Reporting

Consent Decree  
562

Appendix 3 Item 14(e)

Loading Rack Unit is subject to NSPS Subpart VV/GGG.

Monitor fugitive components, maintain records, and report as required.

Emission Source ID 1A-04-FH0008  
Source Description #1 Vacuum - #1 Charge Heater

Process Unit  
No 1&2 Vacuum Unit-04

CLASS 1 OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KAR - Particulate Matter Requirements 563	KAR 28-19-31(a)	A person shall not cause or permit emissions of particulate matter from this equipment in excess of the limits set forth in KAR 28-19-31(a).	Maintain records that demonstrate this source is in clean fuel service. Compliance is presumed by using refinery fuel gas and/or natural gas as a fuel.
MACT DDDDD - Boilers and Process Heaters 564	40 CFR 63.7505(b)(1)	The affected boilers and heaters listed in §63.7506(b)(1) are subject to only the initial notification requirements in §63.9(b), and no other general requirements of 40 CFR 63 Subpart A.	Submit initial notification according to 40 CFR §63.9(b).

Applicable Requirement	Citation	Process Unit No 1&2 Vacuum Unit-04 Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KAR - Particulate Matter Requirements	KAR 28-19-31(a)	A person shall not cause or permit emissions of particulate matter from this equipment in excess of the limits set forth in KAR 28-19-31(a).	Maintain records that demonstrate this source is in clean fuel service. Compliance is presumed by using refinery fuel gas and/or natural gas as a fuel.
565			
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7505(b)(1)	The affected boilers and heaters listed in §63.7506(b)(1) are subject to only the initial notification requirements in §63.9(b), and no other general requirements of 40 CFR 63 Subpart A.	Submit initial notification according to 40 CFR §63.9(b).
566			
NSPS Subpart J	40 CFR 60.104(a)(1)	Fuel gas with H <sub>2</sub> S content in excess of 0.10 gr/dscf shall not be burned in any fuel gas combustion device.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).
567			
NSPS Subpart J	40 CFR 60.105(a)(3)(iv)	Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location (i.e., after one of the combustion devices), provided monitoring accurately represents SO <sub>2</sub> emissions into the atmosphere from each location.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).
568			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
Consent Decree 569	Paragraph 54	By 1/1/2007, reduce NOx emissions to 0.025 lb/MMBtu on a 3-hour average basis.	Implement control technology to comply with the NOx emission limit.
MACT DDDDD - Boilers and Process Heaters 570	40 CFR 63.7505(b)(1)	The affected boilers and heaters listed in §63.7506(b)(1) are subject to only the initial notification requirements in §63.9(b), and no other general requirements of 40 CFR 63 Subpart A.	Submit initial notification according to 40 CFR §63.9(b).
NSPS Subpart J 571	40 CFR 60.104(a)(1)	Fuel gas with H2S content in excess of 0.10 gr/dscf shall not be burned in any fuel gas combustion device.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).
NSPS Subpart J 572	40 CFR 60.105(a)(3)(iv)	Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location (i.e., after one of the combustion devices), provided monitoring accurately represents SO2 emissions into the atmosphere from each location.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).

Emission Source ID IA-08-FH0030  
Source Description #1 HDS Charge Heater

Process Unit  
HDS Unit-08

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT DDDDD - Boilers and Process Heaters 577	40 CFR 63.7505(b)(1)	The affected boilers and heaters listed in §63.7506(b)(1) are subject to only the initial notification requirements in §63.9(b), and no other general requirements of 40 CFR 63 Subpart A.	Submit initial notification according to 40 CFR §63.9(b).
NSPS Subpart J 578	40 CFR 60.104(a)(1)	Fuel gas with H <sub>2</sub> S content in excess of 0.10 gr/dscf shall not be burned in any fuel gas combustion device.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).
NSPS Subpart J 579	40 CFR 60.105(a)(3)(iv)	Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location (i.e., after one of the combustion devices), provided monitoring accurately represents SO <sub>2</sub> emissions into the atmosphere from each location.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).

Emission Source ID IA-08-FH0031  
Source Description #1 HDS Stripper Reboiler

Process Unit  
HDS Unit-08

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KDHE Construction Permit, issued 10/11/91  580	Permit Requirement	Ensure that all notifications and performance testing, as required by NSPS, are conducted as specified in 40 CFR Part 60 for EU-08-FH0030 (H1001)and EU-08-FH0038 (H1002).	Maintain on site a copy of notifications and performance test results, as appropriate, for at least 5 years from date of test or report.
MACT DDDDD - Boilers and Process Heaters  581	40 CFR 63.7505(b)(1)	The affected boilers and heaters listed in §63.7506(b)(1) are subject to only the initial notification requirements in §63.9(b), and no other general requirements of 40 CFR 63 Subpart A.	Submit initial notification according to 40 CFR §63.9(b).
NSPS Subpart J  582	40 CFR 60.104(a)(1)	Fuel gas with H2S content in excess of 0.10 gr/dscf shall not be burned in any fuel gas combustion device.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).
NSPS Subpart J  583	40 CFR 60.105(a)(3)(iv)	Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location (i.e., after one of the combustion devices), provided monitoring accurately represents SO2 emissions into the atmosphere from each location.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).



Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT DDDDD - Boilers and Process Heaters  584	40 CFR 63.7495(a)	Any new or reconstructed boiler or process heater must comply with this subpart by November 12, 2004 or upon startup of your boiler or process heater, whichever is later.	Ensure compliance with this requirement within the date specified.
MACT DDDDD - Boilers and Process Heaters  585	40 CFR 63.7500 (a)(1)	CO Emissions must not exceed 400 ppm by volume on a dry basis corrected to 3 % oxygen ( run average).	Comply with the applicable work practice standards, operating procedures and limits, monitoring requirements and emission limits according to the requirements.
MACT DDDDD - Boilers and Process Heaters  586	40 CFR 63.7500(a)(2)	For other control devices, ensure that opacity (6 minute avg.) is <20% except for one 6 minute period per hour not more than 27%.	Comply with the applicable work practice standards, operating procedures and limits, monitoring requirements and emission limits according to the requirements.
MACT DDDDD - Boilers and Process Heaters  587	40 CFR 63.7505(a)	Ensure compliance with the emission limits (including operating limits) and the work practice standards in this subpart at all times, except during periods of startup, shutdown, and malfunction.	Comply with the applicable work practice standards, operating procedures and limits, monitoring requirements and emission limits according to the requirements.
MACT DDDDD - Boilers and Process Heaters  588	40 CFR 63.7505(e)	If there is an applicable emission limit or work practice standard, develop and implement a written startup, shutdown, and malfunction plan (SSMP) according to the provisions in §63.6(e)(3).	Comply with the applicable work practice standards, operating procedures and limits, monitoring requirements and emission limits according to the requirements.
MACT DDDDD - Boilers and Process Heaters  589	40 CFR 63.7510(a)	If performance testing is elected to demonstrate compliance, initial compliance includes performance tests (§63.7520 & Table 5), fuel analysis for each fuel (§63.7521 & Table 6), establishing operating limits & conducting CMS according to Table 7 & §63.7525.	Perform initial compliance demonstration according to the applicable requirements and procedures for performance testing or fuel analysis options.
MACT DDDDD - Boilers and Process Heaters  590	40 CFR 63.7510(b)	If fuel analysis is elected to demonstrate compliance, initial compliance requirement is fuel analysis for each type of fuel burned (§63.7521 and Table 6), & establish operating limits (§63.7530 and Table 8).	Perform initial compliance demonstration according to the applicable requirements and procedures for performance testing or fuel analysis options.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7510(c)	For sources with applicable work standards, if boiler is limited use and <100MMBtu per hour, initial compliance demonstration is a performance test (Table 5), and if boiler is large and >100MMBtu per hour, then it is a performance evaluation of CO CEMS.	Perform initial compliance demonstration according to the applicable requirements and procedures for performance testing or fuel analysis options.
591			
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7510(g)	If construction or reconstruction or new source occurred after November 12, 2004, demonstrate initial compliance with the promulgated emission limits and work practice standards no later than 180 days after startup of the source.	Ensure compliance with this requirement within the date specified.
592			
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7515(a)	Conduct applicable performance tests according to §63.7520 on an annual basis, within 10-12 months of each other.	Perform continuous compliance demonstration according to the applicable requirements and procedures for performance testing or fuel analysis options.
593			
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7515(e)	If the boiler or heater is subject to applicable work practice standards and <100 MMBtu per hour, then perform annual performance tests for carbon monoxide according to §63.7520 within 10-12 months of each other.	Perform continuous compliance demonstration according to the applicable requirements and procedures for performance testing or fuel analysis options.
594			
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7520(a)	If elected to demonstrate compliance by performance testing, conduct all performance tests according to §63.7(c), (d), (f), and (h). Also develop a site-specific test plan according to the requirements in §63.7(c)	Perform initial compliance demonstration according to the applicable requirements and procedures for performance testing or fuel analysis options.
595			
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7520(b)	Conduct each performance test according to the requirements in Table 5 to MACT Subpart DDDDD.	Perform continuous compliance demonstration according to the applicable requirements and procedures for performance testing or fuel analysis options.
596			
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7520(d)	Conduct performance test under specific conditions in Tables 5 and 7 to this subpart at the maximum normal operating load while burning fuel or mixture of fuels that have the highest content of Cl, Hg, or Total Selected Metals to demonstrate compliance.	Perform continuous compliance demonstration according to the applicable requirements and procedures for performance testing or fuel analysis options.
597			
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7520(e)	Performance tests need not be conducted during periods of startup, shutdown, or malfunction.	Perform continuous compliance demonstration according to the applicable requirements and procedures for performance testing or fuel analysis options.
598			

Emission Source ID IA-08-FH0045  
Source Description #2 HDS Reactor Charge Heater

Process Unit  
HDS Unit-08

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7520(f)	Conduct three separate test runs for each performance test required in this section, as specified in §63.7(c)(3). Each test run must last at least 1 hour.	Perform continuous compliance demonstration according to the applicable requirements and procedures for performance testing or fuel analysis options.
599 MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7540(a)-(d)	Demonstrate continuous compliance with emission limits and work practice standards according to 40 CFR 63.7540(a). Maintain report for each instance of non compliance and operate according to SSMP as per 40 CFR 63.7540 (b)-(d)	Perform continuous compliance demonstration according to the applicable requirements and procedures for performance testing or fuel analysis options.
600 MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7545(c)	If the boiler or heater is constructed after November 12, 2004, ensure that initial notification is submitted prior to 15 days after date of startup.	Ensure compliance with this requirement within the date specified.
601 MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7545(d)-(e)	Ensure that a Notification of Intent is submitted at least 30 days before an applicable performance test date per 40 CFR 63.7545(d). For an applicable initial compliance demonstration, submit a notification of compliance status per 40 CFR 63.7545(e).	Submit all applicable reports according to the specified requirements.
602 MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7550(a)-(g)	Submit each applicable report in Table 9 of 40 CFR 63 Subpart DDDDD according to the applicable requirements in 40 CFR 63.7550(a)-(g).	Submit all applicable reports according to the specified requirements.
603 MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7555(a)-(d);63.7560(a)-(c)	Maintain all the applicable records according to requirements in 40 CFR 63.7555 (a)-(d). Ensure that the records are available for expeditious review and maintained at the facility for 5 years after the date of each reportable occurrence or action.	Maintain on site for review a copy of reports/notifications submitted to the Administrator for 5 years unless otherwise specified in the referenced citation.
604			

Emission Source ID IA-09-FH0011  
Source Description Hydrobon Debutanizer Reboiler

Process Unit  
Hydrobon Unit-09

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7505(b)(1)	The affected boilers and heaters listed in §63.7506(b)(1) are subject to only the initial notification requirements in §63.9(b), and no other general requirements of 40 CFR 63 Subpart A.	Submit initial notification according to 40 CFR §63.9(b).
605			
NSPS Subpart J	40 CFR 60.104(a)(1)	Fuel gas with H2S content in excess of 0.10 gr/dscf shall not be burned in any fuel gas combustion device.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).
606			
NSPS Subpart J	40 CFR 60.105(a)(3)(iv)	Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location (i.e., after one of the combustion devices), provided monitoring accurately represents SO2 emissions into the atmosphere from each location.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).
607			

Emission Source ID IA-09-FH0013  
Source Description Hydrobon Charge Heater

Process Unit  
Hydrobon Unit-09

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7505(b)(1)	The affected boilers and heaters listed in §63.7506(b)(1) are subject to only the initial notification requirements in §63.9(b), and no other general requirements of 40 CFR 63 Subpart A.	Submit initial notification according to 40 CFR §63.9(b).
608			
NSPS Subpart J	40 CFR 60.104(a)(1)	Fuel gas with H2S content in excess of 0.10 gr/dscf shall not be burned in any fuel gas combustion device.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).
609			
NSPS Subpart J	40 CFR 60.105(a)(3)(iv)	Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location (i.e., after one of the combustion devices), provided monitoring accurately represents SO2 emissions into the atmosphere from each location.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).
610			

Emission Source ID 1A-10-FH0016  
Source Description Stabilizer Reboiler Heater

Process Unit  
Platformer Unit-10

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7505(b)(1)	The affected boilers and heaters listed in §63.7506(b)(1) are subject to only the initial notification requirements in §63.9(b), and no other general requirements of 40 CFR 63 Subpart A.	Submit initial notification according to 40 CFR §63.9(b).
611			
NSPS Subpart J	40 CFR 60.104(a)(1)	Fuel gas with H <sub>2</sub> S content in excess of 0.10 gr/dscf shall not be burned in any fuel gas combustion device.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).
612			
NSPS Subpart J	40 CFR 60.105(a)(3)(iv)	Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location (i.e., after one of the combustion devices), provided monitoring accurately represents SO <sub>2</sub> emissions into the atmosphere from each location.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).
613			
Permit Requirement	KDHE Air Permit issued 8/14/78 and 9/4/80, amended 1981	Reformer Stabilizer Reboiler Heater #43 (EU-10-FH0016) specifications: use refinery/natural gases; low NO <sub>x</sub> burners; 0.13 lb. NO <sub>x</sub> /MMbtu.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
614			

Emission Source ID IA-11-FH0018  
Source Description Unifiner Charge Heater B-101

Process Unit  
Unifiner-11

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KAR - Opacity  615	KAR 28-19-31(b)(1)	A person shall not cause or permit visible contaminant emissions from any indirect heating equipment which equals or exceeds 40% opacity.	Maintain records that demonstrate this source is in clean fuel service. Compliance is presumed by using refinery fuel gas and/or natural gas as a fuel.
KAR - Particulate Matter Requirements  616	KAR 28-19-31(a)	A person shall not cause or permit emissions of particulate matter from this equipment in excess of the limits set forth in KAR 28-19-31(a).	Maintain records that demonstrate this source is in clean fuel service. Compliance is presumed by using refinery fuel gas and/or natural gas as a fuel.
MACT DDDDD - Boilers and Process Heaters  617	40 CFR 63.7505(b)(1)	The affected boilers and heaters listed in §63.7506(b)(1) are subject to only the initial notification requirements in §63.9(b), and no other general requirements of 40 CFR 63 Subpart A.	Submit initial notification according to 40 CFR §63.9(b).

Emission Source ID IA-11-FH0019  
Source Description Unifiner Stripper Reboiler

Process Unit  
Unifiner-11

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KAR - Particulate Matter Requirements  618	KAR 28-19-31(a)	A person shall not cause or permit emissions of particulate matter from this equipment in excess of the limits set forth in KAR 28-19-31(a).	Maintain records that demonstrate this source is in clean fuel service. Compliance is presumed by using refinery fuel gas and/or natural gas as a fuel.
MACT DDDDD - Boilers and Process Heaters  619	40 CFR 63.7505(b)(1)	The affected boilers and heaters listed in §63.7506(b)(1) are subject to only the initial notification requirements in §63.9(b), and no other general requirements of 40 CFR 63 Subpart A.	Submit initial notification according to 40 CFR §63.9(b).



Emission Source ID IA-12-FH0038  
Source Description Coker Heavy Heater (DHR-2A)

Process Unit  
Coker-12

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KDHE Construction Permit, issued 11/22/93 620	Approval Condition No. 1	Meet NSPS Subpart J for SO <sub>2</sub> in fuel gas and KAR 28-19-31 for particulate & opacity for EU-12-FH0031 (DHR-2A).	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
KDHE Construction Permit, issued 11/22/93 621	Approval Condition No. 2	Fuel gas burned in this process heater (EU-12-FH0031) shall come only from the same source, the mixing drum, as the fuel gas burned in the Radco heater.	Document using P&IDs and equipment drawings, that fuel gas burned in this process heater came from the fuel gas mix drum.
KDHE Construction Permit, issued 11/22/93 622	Permit Requirement, Notification	Notify Air Quality District Representative in Southeast District KDHE office, when installation of this unit is complete so that an evaluation can be conducted to verify compliance with applicable regulations.	Maintain on site for review a copy of reports/notifications submitted to the Administrator for 5 years unless otherwise specified in the referenced citation.
MACT DDDDD - Boilers and Process Heaters 623	40 CFR 63.7505(b)(1)	The affected boilers and heaters listed in §63.7506(b)(1) are subject to only the initial notification requirements in §63.9(b), and no other general requirements of 40 CFR 63 Subpart A.	Submit initial notification according to 40 CFR §63.9(b).
NSPS Subpart J 624	40 CFR 60.104(a)(1)	Fuel gas with H <sub>2</sub> S content in excess of 0.10 gr/dscf shall not be burned in any fuel gas combustion device.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).
NSPS Subpart J 625	40 CFR 60.105(a)(3)(iv)	Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location (i.e., after one of the combustion devices), provided monitoring accurately represents SO <sub>2</sub> emissions into the atmosphere from each location.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).
Permit Requirement 626	KDHE Air Permit issued 11/22/93	Indirect heater #DHR-2A (EU-12-FH0031) shall use low NO <sub>x</sub> burners with a limit of 0.12lbs. NO <sub>x</sub> /MMBtu.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.

Emission Source ID IA-13-FH0004  
Source Description OTS - TK5502 Heater (Portable)

Process Unit  
Cat Cracking-13

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KAR - Opacity  627	KAR 28-19-31(b)(1)	A person shall not cause or permit visible contaminant emissions from any indirect heating equipment which equals or exceeds 40% opacity.	Maintain records that demonstrate this source is in clean fuel service. Compliance is presumed by using refinery fuel gas and/or natural gas as a fuel.
KAR - Particulate Matter Requirements  628	KAR 28-19-31(a)	A person shall not cause or permit emissions of particulate matter from this equipment in excess of the limits set forth in KAR 28-19-31(a).	Maintain records that demonstrate this source is in clean fuel service. Compliance is presumed by using refinery fuel gas and/or natural gas as a fuel.
MACT DDDDD - Boilers and Process Heaters  629	40 CFR 63.7505(b)(1)	The affected boilers and heaters listed in §63.7506(b)(1) are subject to only the initial notification requirements in §63.9(b), and no other general requirements of 40 CFR 63 Subpart A.	Submit initial notification according to 40 CFR §63.9(b).

Emission Source ID IA-13-FH0021  
Source Description Alcorn Charge Heater

Process Unit  
Cat Cracking-13

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7505(b)(1)	The affected boilers and heaters listed in §63.7506(b)(1) are subject to only the initial notification requirements in §63.9(b), and no other general requirements of 40 CFR 63 Subpart A.	Submit initial notification according to 40 CFR §63.9(b).
630			
NSPS Subpart J	40 CFR 60.104(a)(1)	Fuel gas with H <sub>2</sub> S content in excess of 0.10 gr/dscf shall not be burned in any fuel gas combustion device.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).
631			
NSPS Subpart J	40 CFR 60.105(a)(3)(iv)	Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location (i.e., after one of the combustion devices), provided monitoring accurately represents SO <sub>2</sub> emissions into the atmosphere from each location.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).
632			
Permit Requirement	KDHE Air Permit, issued 8/8/78 and PSD Permit Dated 9/4/80	FCCU Charge Heater #40 (IA-13-FH0021) specifications: max.51 MMbtu/hr; use refinery/natural gases; low NO <sub>x</sub> burners; 0.13 lb NO <sub>x</sub> /MMbtu.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
633			

Emission Source ID IA-13-FH0022  
Source Description FCCU Steam Superheater

Process Unit  
Cat Cracking-13

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7505(b)(1)	The affected boilers and heaters listed in §63.7506(b)(1) are subject to only the initial notification requirements in §63.9(b), and no other general requirements of 40 CFR 63 Subpart A.	Submit initial notification according to 40 CFR §63.9(b).
634			
NSPS Subpart J	40 CFR 60.104(a)(1)	Fuel gas with H <sub>2</sub> S content in excess of 0.10 gr/dscf shall not be burned in any fuel gas combustion device.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).
635			
NSPS Subpart J	40 CFR 60.105(a)(3)(iv)	Fuel gas combustion devices having a common source of fuel gas may be monitored at only one location (i.e., after one of the combustion devices), provided monitoring accurately represents SO <sub>2</sub> emissions into the atmosphere from each location.	Maintain records for EU-03-FH0005 to demonstrate compliance with the specified citation (fuel gas for this combustion device is the same as for EU-03-FH0005).
636			
Permit Requirement	KDHE Air Permit issued 8/8/78 and PSD Permit issued 9/4/80	FCCU Steam Superheater #41 (IA-13-FH-0022) specifications: max. 32 MMBtu/hr; use refinery/natural gases; conventional burners; 0.15 lb. NO <sub>x</sub> /MMBtu.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
637			

Emission Source ID 1A-15-FH0023  
Source Description Alkylation Hot Oil Heater

Process Unit  
Alkylation Unit-15

CLASS 1 OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KAR - Opacity  638	KAR 28-19-31(b)(1)	A person shall not cause or permit visible contaminant emissions from any indirect heating equipment which equals or exceeds 40% opacity.	Maintain records that demonstrate this source is in clean fuel service. Compliance is presumed by using refinery fuel gas and/or natural gas as a fuel.
KAR - Particulate Matter Requirements  639	KAR 28-19-31(a)	A person shall not cause or permit emissions of particulate matter from this equipment in excess of the limits set forth in KAR 28-19-31(a).	Maintain records that demonstrate this source is in clean fuel service. Compliance is presumed by using refinery fuel gas and/or natural gas as a fuel.
MACT DDDDD - Boilers and Process Heaters  640	40 CFR 63.7505(b)(1)	The affected boilers and heaters listed in §63.7506(b)(1) are subject to only the initial notification requirements in §63.9(b), and no other general requirements of 40 CFR 63 Subpart A.	Submit initial notification according to 40 CFR §63.9(b).

**Emission Source ID** 1A-15-FH0025

**Source Description** Alkylation Olefin Feed Drying Tower Heater

**Process Unit**  
Alkylation Unit-15

**CLASS I OPERATING PERMIT**

**Source ID No.: 1250003**

**ATTACHMENT D**

<b>Applicable Requirement</b>	<b>Citation</b>	<b>Operating Limitation Or Condition</b>	<b>Monitoring, Performance Test, Recordkeeping and Reporting</b>
KAR - Particulate Matter Requirements  641	KAR 28-19-31(a)	A person shall not cause or permit emissions of particulate matter from this equipment in excess of the limits set forth in KAR 28-19-31(a).	Maintain records that demonstrate this source is in clean fuel service. Compliance is presumed by using refinery fuel gas and/or natural gas as a fuel.
MACT DDDDD - Boilers and Process Heaters  642	40 CFR 63.7505(b)(1)	The affected boilers and heaters listed in §63.7506(b)(1) are subject to only the initial notification requirements in §63.9(b), and no other general requirements of 40 CFR 63 Subpart A.	Submit initial notification according to 40 CFR §63.9(b).

Emission Source ID 1A-16-FH0026  
Source Description Isom. Charge Heater

Process Unit  
TIP Unit-16

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KAR - Particulate Matter Requirements	KAR 28-19-31(a)	A person shall not cause or permit emissions of particulate matter from this equipment in excess of the limits set forth in KAR 28-19-31(a).	Maintain records that demonstrate this source is in clean fuel service. Compliance is presumed by using refinery fuel gas and/or natural gas as a fuel.
643 MACT DDDDD - Boilers and Process Heaters	40 CFR 63.7505(b)(1)	The affected boilers and heaters listed in §63.7506(b)(1) are subject to only the initial notification requirements in §63.9(b), and no other general requirements of 40 CFR 63 Subpart A.	Submit initial notification according to 40 CFR §63.9(b).
644			

Emission Source ID   IA-TEMPGEN  
Source Description   Temporary Emergency Diesel Engine

Process Unit

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KDHE Permit Dated 3/16/1999 645	Permit Condition	Ensure that opacity is below 20% and the total NOx emissions are <40 tons during any consecutive 12 month period.	Monitor emissions from the unit at all phases of operation except during unit outages and turnarounds.



Emission Source ID TK-0009  
Source Description Storage Tank

Process Unit  
Sewer and WW-30

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart QQQ  646	40 CFR 60.692-3	Standard: Oil Water Separator	Use compliance methods described in source #CG-WWT1. Follow all compliance methods for oil water separators (60.692-3) listed for CG-WWT1.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KAR-HC Emissions 647	KAR 28-19-23(A)(2)	Equip the tank with a vapor recovery system, consisting of a vapor gathering system capable of collecting the VOC vapors and gases discharged and a vapor disposal system capable of processing such VOC vapors and gases so as to prevent their emission.	Maintain records that demonstrate emissions from vessel are hard piped to a closed vent system and vapor control device.
KAR-HC Emissions 648	KAR 28-19-23(A)(2)	Ensure that all tank gauging or sampling devices are gas-tight except when tank gauging or sampling is taking place.	Maintain records that demonstrate tank gauging equipment and sampling devices are designed to be gas-tight except when gauging and sampling is taking place.
MACT Subpart CC - Tanks 649	40 CFR 63.640(n)(1) & 60.110b	NSPS Subpart Kb applies to this existing storage vessel. The vessel is also classified as a Group 1 storage vessel under 40 CFR 63 Subpart CC. Therefore, according to 40 CFR 63.640(n)(1), the vessel is required to only comply with NSPS Subpart Kb.	Comply with the NESHAP Subpart CC (Petroleum Refinery MACT) requirements.
NSPS Subpart Kb 650	40 CFR 60.112b (b)(1)	Ensure that the TVP of the tank contents is <11.1 psia or equip the vessel with a vapor recovery and disposal system and comply with all of the requirements accordingly.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP > 11.1 psia.
NSPS Subpart Kb 651	40 CFR 60.112b(a)	Equip vessel with fixed roof and IFR, EFR, closed vent system and control device, or a system equivalent to these.	Maintain records that demonstrate emissions from vessel are hard piped to a closed vent system and vapor control device.
NSPS Subpart Kb 652	40 CFR 60.112b(a)(3)(i)	Design a closed vent system to collect all VOC vapors and gases discharged from the storage vessel.	Maintain records that demonstrate emissions from vessel are hard piped to a closed vent system and vapor control device.
NSPS Subpart Kb 653	40 CFR 60.112b(a)(3)(i)	Operate the closed vent system with no detectable emissions as indicated by an instrument reading of <500 ppm above background and visual inspection.	Confirm non-detectable emission status using Method 21 as specified in 40 CFR 60.485(c) and maintain this data on file for review.
NSPS Subpart Kb 654	40 CFR 60.112b(a)(3)(ii)	Design and operate a flare to meet requirements as specified in 40 CFR 60.18.	Maintain records that demonstrate the flare will comply with 40 CFR 60.18.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart Kb 655	40 CFR 60.113b(d)	For CVS with flare as control device, comply with the requirements in 40 CFR 60.18(e) and (f).	Maintain records that demonstrate the flare will comply with 40 CFR 60.18.
NSPS Subpart Kb 656	40 CFR 60.115b & 116b	Keep a copy of all reports required to be submitted to the Administrator for at least 5 years.	Maintain copies of reports on site for at least 5 years from date of report.
NSPS Subpart Kb 657	40 CFR 60.115b(c)(1)	For CVS with a control device, maintain a copy of the operating plan for the life of the control equipment.	Maintain on site a copy of the closed vent system operating plan for the life of the control device.
NSPS Subpart Kb 658	40 CFR 60.115b(c)(2)	For CVS with control device, maintain a record of the measured values of the parameters measured in accordance with 40 CFR 60.113b(c)(2) for at least 5 years.	Record the closed vent system monitoring parameters and maintain the data on file for 5 years or unless otherwise specified in the referenced citation.
NSPS Subpart Kb 659	40 CFR 60.115b(d)(1)	For CVS with flare as control device, submit a report to the Administrator within 6 months of initial startup date that contains the measurements required by 40 CFR 60.18(f)(1-6).	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
NSPS Subpart Kb 660	40 CFR 60.115b(d)(2)	For CVS with flare as control device, maintain a record for at least 5 years of all periods of operation during which the flare pilot flame was absent.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
NSPS Subpart Kb 661	40 CFR 60.115b(d)(3)	For CVS with flare as control device, submit to the Administrator semiannual reports of all periods in which the pilot flame was absent.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
NSPS Subpart Kb 662	40 CFR 60.116b(b)	Keep readily accessible records for the life of the source showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel (unless the vessel has design capacity <75 cu. m).	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KAR-HC Emissions  663	KAR 28-19-23(A)(2)	Ensure that all tank gauging or sampling devices are gas-tight except when tank gauging or sampling is taking place.	Maintain records that demonstrate tank gauging equipment and sampling devices are designed to be gas-tight except when gauging and sampling is taking place.
KAR-HC Emissions  664	KAR 28-19-23(A)(2)	Equip the tank with a vapor recovery system, consisting of a vapor gathering system capable of collecting the VOC vapors and gases discharged and a vapor disposal system capable of processing such VOC vapors and gases so as to prevent their emission.	Maintain records that demonstrate emissions from vessel are hard piped to a closed vent system and vapor control device.
MACT Subpart CC - Tanks  665	40 CFR 63.640(n)(1) & 60.110b	NSPS Subpart Kb applies to this existing storage vessel. The vessel is also classified as a Group 1 storage vessel under 40 CFR 63 Subpart CC. Therefore, according to 40 CFR 63.640(n)(1), the vessel is required to only comply with NSPS Subpart Kb.	Comply with the NESHAP Subpart CC (Petroleum Refinery MACT) requirements.
NSPS Subpart Kb  666	40 CFR 60.112b (b)(1)	Ensure that the TVP of the tank contents is <11.1 psia or equip the vessel with a vapor recovery and disposal system and comply with all of the requirements accordingly.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP > 11.1 psia.
NSPS Subpart Kb  667	40 CFR 60.112b(a)	Equip vessel with fixed roof and IFR, EFR, closed vent system and control device, or a system equivalent to these.	Maintain records that demonstrate emissions from vessel are hard piped to a closed vent system and vapor control device.
NSPS Subpart Kb  668	40 CFR 60.112b(a)(3)(i)	Design a closed vent system to collect all VOC vapors and gases discharged from the storage vessel.	Maintain records that demonstrate emissions from vessel are hard piped to a closed vent system and vapor control device.
NSPS Subpart Kb  669	40 CFR 60.112b(a)(3)(i)	Operate the closed vent system with no detectable emissions as indicated by an instrument reading of <500 ppm above background and visual inspection.	Confirm non-detectable emission status using Method 21 as specified in 40 CFR 60.485(c) and maintain this data on file for review.
NSPS Subpart Kb  670	40 CFR 60.112b(a)(3)(ii)	Design and operate a flare to meet requirements as specified in 40 CFR 60.18.	Maintain records that demonstrate the flare will comply with 40 CFR 60.18.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart Kb 671	40 CFR 60.113b(d)	For CVS with flare as control device, comply with the requirements in 40 CFR 60.18(e) and (f).	Maintain records that demonstrate the flare will comply with 40 CFR 60.18.
NSPS Subpart Kb 672	40 CFR 60.115b & 116b	Keep a copy of all reports required to be submitted to the Administrator for at least 5 years.	Maintain copies of reports on site for at least 5 years from date of report.
NSPS Subpart Kb 673	40 CFR 60.115b(c)(1)	For CVS with a control device, maintain a copy of the operating plan for the life of the control equipment.	Maintain on site a copy of the closed vent system operating plan for the life of the control device.
NSPS Subpart Kb 674	40 CFR 60.115b(c)(2)	For CVS with control device, maintain a record of the measured values of the parameters measured in accordance with 40 CFR 60.113b(c)(2) for at least 5 years.	Record the closed vent system monitoring parameters and maintain the data on file for 5 years or unless otherwise specified in the referenced citation.
NSPS Subpart Kb 675	40 CFR 60.115b(d)(1)	For CVS with flare as control device, submit a report to the Administrator within 6 months of initial startup date that contains the measurements required by 40 CFR 60.18(f)(1-6).	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
NSPS Subpart Kb 676	40 CFR 60.115b(d)(2)	For CVS with flare as control device, maintain a record for at least 5 years of all periods of operation during which the flare pilot flame was absent.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
NSPS Subpart Kb 677	40 CFR 60.115b(d)(3)	For CVS with flare as control device, submit to the Administrator semiannual reports of all periods in which the pilot flame was absent.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
NSPS Subpart Kb 678	40 CFR 60.116b(b)	Keep readily accessible records for the life of the source showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel (unless the vessel has design capacity <75 cu. m).	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.

Emission Source ID TK-0242  
Source Description Storage Tank

Process Unit  
Coker-12

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  679	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  680	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.

Emission Source ID TK-0243  
Source Description Storage Tank

Process Unit  
Sewer and WW-30

CLASS 1 OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart QQQ  681	40 CFR 60.692-3	Standard: Oil Water Separator	Use compliance methods described in source #CG-WWT1. Follow all compliance methods for oil water separators (60.692-3) listed for CG-WWT1.
NSPS Subpart QQQ  682	40 CFR 60.692-3(b)	Equip each oil-water separator tank or auxiliary equipment with a design capacity to treat more than 250 gpm wastewater with a closed vent system and control device unless exemption applies.	Use requirements addressed under Facility-wide section of this table.

Emission Source ID TK-0270  
Source Description Storage Tank

Process Unit  
Coker-12

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  683	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  684	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.



Emission Source ID TK-0340  
Source Description Storage Tank

Process Unit  
Coker-12

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  685	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  686	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.

Emission Source ID TK-0341  
Source Description Storage Tank

Process Unit  
Coker-12

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  687	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  688	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.

Emission Source ID TK-0424  
Source Description Storage Tank

Process Unit  
Product Loading-96

CLASS 1 OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  689	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  690	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.

Emission Source ID TK-0426  
Source Description Storage Tank

Process Unit  
Product Loading-96

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  691	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  692	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.

Emission Source ID TK-0482  
Source Description Storage Tank

Process Unit  
Coker-12

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  693	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  694	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.

Emission Source ID TK-0487  
Source Description Storage Tank

Process Unit  
No 1&2 Vacuum Unit-04

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  695	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  696	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.

Emission Source ID TK-0488  
Source Description Storage Tank

Process Unit  
Coker-12

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  697	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  698	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.

Emission Source ID TK-0503  
Source Description Storage Tank

Process Unit  
Cat Cracking-13

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
699			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.
700			



Emission Source ID TK-0504  
Source Description Storage Tank

Process Unit  
Cat Cracking-13

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  701	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  702	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.

Emission Source ID TK-0505  
Source Description Storage Tank

Process Unit  
Cat Cracking-13

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  703	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  704	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.

Emission Source ID TK-0506  
Source Description Storage Tank

Process Unit  
Cat Cracking-13

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  705	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  706	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(1)(i-ii)	Equip the EFR with a closure device consisting of 2 seals, one above the other. Primary seal shall be metallic shoe seal or liquid-mounted seal.	Maintain records that demonstrate the external floating roof is equipped with a closure consisting of two seals, a primary mechanical shoe seal or liquid mounted seal and a rim-mounted secondary seal.
707			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(a)(1)	Ensure that the tank is equipped w/either a fixed roof & IFR, an EFR, an EFR converted to an IFR, CVS w/control device, or equivalent system as provided in 40 CFR 63.121.	Maintain records that demonstrate the tank is equipped with an external floating roof.
708			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(a)(2)	Ensure that the TVP of the stored liquid remains <76.6kPa (11.1psia) or equip the vessel with CVS and control device and comply with the associated requirements.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP >11.1psia.
709			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(1)(iii)	Ensure that the primary and secondary seals completely cover the annular space between the EFR and vessel wall in a continuous fashion.	Maintain records that demonstrate seals completely cover the annular space between the roof and vessel wall in a continuous fashion. Inspect seals at a frequency specified in the referenced citation.
710			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(1)(iv)	Ensure that the EFR is equipped with a secondary seal.	Maintain records that demonstrate the tank is equipped with a rim-mounted secondary seal.
711			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(3)(i-iii)	Ensure EFR is floating on liquid surface at all times except when supported by leg supports during initial fill, after emptied and degassed, and when emptied before being subsequently refilled.	Maintain records that verify that the liquid is at a level which ensures the roof is floating on the liquid surface at all times.
712			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(4)	Ensure that when the EFR is resting on leg supports that the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as possible.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
713			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks 714	40 CFR 63.646(a) & 63.120(b)(1)(ii)	Closure consists of two seals, a metallic shoe primary seal and a rim-mounted secondary seal.	Maintain records to demonstrate compliance as specified in the referenced citation.
MACT Subpart CC - Tanks 715	40 CFR 63.646(a) & 63.120(b)(1)(iii)	For EFR tanks with double seals, measure gap between the vessel wall and the secondary seal.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
MACT Subpart CC - Tanks 716	40 CFR 63.646(a) & 63.120(b)(1)(iv)	If vessel ceases to store organic HAP or TVP falls below threshold for 1 year or >, seal gap measurements shall be performed within 90 days of refilling EFR tank with HAP.	Maintain a log of tank service. Perform gap measurements within 90 days of any tank that is out-of-service for 1 year or more.
MACT Subpart CC - Tanks 717	40 CFR 63.646(a) & 63.120(b)(10)	Visually inspect the EFR, seals, and fittings each time the vessel is emptied and degassed.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of the inspection on site for at least 5 years.
MACT Subpart CC - Tanks 718	40 CFR 63.646(a) & 63.120(b)(10)(i-iii)	Notify Administrator in writing 30 days prior to filling or refilling each emptied/degassed EFR tank. If unplanned inspection, make notification at least 7 days prior by phone and follow-up in writing.	Maintain copies of notifications to the Administrator on site for at least 5 years from the date of the notification.
MACT Subpart CC - Tanks 719	40 CFR 63.646(a) & 63.120(b)(2)(i-iii)	Ensure that all gap measurements on the EFR are made according to the guidelines outlined in 40 CFR 63.120(b)(2)(i-iii).	Calculate gap areas using the method and guidelines in the specified citation. Retain these calculations for at least 5 years following the date of measurement.
MACT Subpart CC - Tanks 720	40 CFR 63.646(a) & 63.120(b)(3)	Ensure that the accumulated area of gaps between EFR tank wall and primary seal does not exceed 212 sq. cm/m diameter & width of any gap does not exceed 3.18 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.

Emission Source ID TK-0551  
Source Description Storage Tank

Process Unit  
No 1 Crude Unit-03

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(4)	Ensure that the accumulated area of gaps between EFR tank wall and secondary seal does not exceed 21.2 sq. cm/m diameter and width of any gap does not exceed 1.27 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
721			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(5)(i)	If metallic shoe seal is in use ensure one end of the seal extends into the stored liquid and other end extends a minimum vertical distance of 61 cm above the stored liquid surface.	Maintain records that demonstrate the mechanical shoe seal is designed to have one end extend into the stored liquid and the other end extend a minimum vertical distance of 61cm above the stored liquid surface.
722			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(5)(ii)&(b)(6)(i)	Ensure that there are no holes, tears, or other openings in the shoe, seal fabric, or seal envelope of the primary seal or secondary seal of the EFR.	Verify the condition of the primary and/or secondary seals during inspections. Maintain a record of the inspections.
723			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(6)(i)	Ensure that the secondary seal is installed above the primary seal so that it completely covers the space between the roof edge and the EFR tank wall.	Verify the condition of the primary and/or secondary seals during inspections. Maintain a record of the inspections.
724			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(7)(i-ii)	If EFR is unsafe to perform seal gap measurements, measure gaps or inspect no later than 30 day after the determination or empty tank within 45 days or request an extension.	Measure gaps within 30 days or when tank is emptied or when an extension is requested. Maintain records of these actions on site for at least 5 years.
725			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(8)	Within 45 days, repair conditions not meeting requirements (gap exceedances, holes in seals/fabric, seals not installed) or remove EFR tank from service or request extension.	Maintain records that demonstrate repairs are made in a timely manner and completed within 45 days, or that the tank is empty, or that an extension is requested. Maintain a record of the request on site for 5 years.
726			
MACT Subpart CC - Tanks	40 CFR 63.646(a)(e)&63.120(b)(10)(i)	For existing sources, repair defects found during inspection of emptied/degassed EFR tank before refilling w/HAP. Defects include holes, tears, openings in seal fabric, or slotted membranes w/ >10% open area (after MACT compliance date).	Maintain records that demonstrate defects detected during inspections are repaired prior to refilling with a volatile organic liquid.
727			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(b)(1)	Document any data, assumptions, and procedures used to group classification for storage vessels subject to this Subpart.	Maintain data, assumptions and calculations for determination of group status as long as status remains unchanged.
728			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(1)	Ensure that if a cover or lid is installed on an opening in a floating roof, that it remains closed except when it must be open for access.	Maintain records that demonstrate openings were designed and built with gasketed covers or lids. Perform visual inspections of the covers to ensure closure.
729			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(3)	Ensure that the automatic bleeder vents are closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
730			
MACT Subpart CC - Tanks	40 CFR 63.654(f)(1)(i)(A-D)	Ensure that the Notification of Compliance Status report contains information specified in 40 CFR 63.654(f)(1)(i)(A-D).	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
731			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(i)(A-D)	For seal gap measurements of EFR tanks in which the gap limits were exceeded, submit with the Periodic Report, the information specified in 40 CFR 63.654(g)(3)(i)(A-D).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
732			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(ii)	If an extension was used to repair a failure or empty a tank, include in the Periodic Report the information specified in 40 CFR 63.654(g)(3)(ii).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
733			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(iii)(B)	For inspections of emptied and degassed EFR tanks, include in the next Periodic Report the information specified in 40 CFR 63.654(g)(3)(iii)(B) of any failures detected.	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
734			
MACT Subpart CC - Tanks	40 CFR 63.654(h)(2)(ii) & 63.120(b)(9)	Notify the Administrator in writing 30 days prior to gap measurements of the EFR tank.	Maintain copies of notifications to the Administrator on site for at least 5 years from the date of the notification.
735			

Emission Source ID TK-0551  
Source Description Storage Tank

Process Unit  
No 1 Crude Unit-03

CLASS 1 OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  736	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  737	40 CFR 63.654(i)(1)(i-iii) & 63.123(b)	Maintain a record of reports submitted in accordance with 40 CFR 63.654(e) including the Notification of Compliance Status, Periodic Reports, & other reports for at least 5 yrs from the date of report.	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
MACT Subpart CC - Tanks  738	40 CFR 63.654(i)(1)(i-iii) & 63.123(d)	EFR tanks complying w/40 CFR 63.119(c), maintain records (5 yrs from measure date) describing results of ea. gap measurement including measurement date, raw data, & calculations.	Maintain records of each gap measurement on site for at least 5 years following date of measurement.
MACT Subpart CC - Tanks  739	40 CFR 63.654(i)(1)(i-iii) & 63.123(g)	If an extension is used in emptying a tank in accordance with 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8), maintain the documentation outlined in those sections.	Maintain required documentation on site for at least 5 years.



Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  740	40 CFR 63.646(a) & 63.119(a)(1)	Ensure that the tank is equipped with either a fixed roof and IFR, an EFR, an EFR converted to an IFR, CVS with control device, or equivalent system as provided in 40 CFR 63.121.	Maintain records that demonstrate tank is equipped with a fixed roof and internal floating roof.
MACT Subpart CC - Tanks  741	40 CFR 63.646(a) & 63.119(a)(2)	Ensure that the TVP of the stored liquid remains <76.6 kPa (11.1 psia) or equip the vessel with CVS and control device and comply with the associated requirements.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP > 11.1 psia.
MACT Subpart CC - Tanks  742	40 CFR 63.646(a) & 63.119(a)(2)	Ensure that the TVP of the stored liquid remains <76.6 kPa (11.1 psia) or equip the vessel with CVS and control device and comply with the associated requirements.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP > 11.1 psia.
MACT Subpart CC - Tanks  743	40 CFR 63.646(a) & 63.119(b)(1)	Ensure that the IFR is floating on the liquid surface at all times except when it must be supported by leg supports during initial fill, after vessel has been completely emptied and degassed.	Maintain records to verify that the liquid is at a level which ensures the roof is floating on the liquid surface at all times except when supported by leg supports when emptied and degassed and during filling.
MACT Subpart CC - Tanks  744	40 CFR 63.646(a) & 63.119(b)(2)	Ensure that when the IFR is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as possible.	Follow standard operating procedures to empty or refill the vessel as soon as possible, in a safe and effective manner.
MACT Subpart CC - Tanks  745	40 CFR 63.646(a) & 63.119(b)(3)(i-iii)	Equip the IFR with a closure device between the vessel wall and the roof edge. Device to be a liquid-mounted seat, metallic shoe seat, or two seals one above the other forming a continuous closure.	Maintain records that demonstrate closure consists of a seal between the tank wall and cover edge.
MACT Subpart CC - Tanks  746	40 CFR 63.646(a) & 63.119(b)(4)	Ensure that the automatic bleeder vents are closed at all times when the IFR is floating except when the roof is being floated off or is being landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
MACT Subpart CC - Tanks  747	40 CFR 63.646(a) & 63.120(a)(2)(i)	For single-seal systems, visually inspect the IFR and seats thru manholes and roof hatches on fixed roof once every 12 months after initial fill.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  748	40 CFR 63.646(a) & 63.120(a)(2)(ii)	For existing sources that have single-seal systems, visually inspect the IFR, and seal each time vessel is emptied and degassed and at least once every 10 years.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.
MACT Subpart CC - Tanks  749	40 CFR 63.646(a) & 63.120(a)(3)(i-iii)	For existing sources with double-seal systems, visually inspect IFR & seals each time tank emptied & degassed & at least once/5 yrs or inspect thru manholes once every 12 mos. and each time tank emptied & degassed at least once/10 yrs.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.
MACT Subpart CC - Tanks  750	40 CFR 63.646(a) & 63.120(a)(7)	Before refilling an existing IFR tank, that has been emptied and degassed, repair any defective conditions detected including holes, tears, or openings in seals or seal fabric.	Maintain records that demonstrate defects detected during inspections are repaired prior to refilling with a volatile organic liquid.
MACT Subpart CC - Tanks  751	40 CFR 63.646(a) & 63.654(g)(2)(i)(A) & 63.120(a)(4)	Within 45 days, repair defective conditions such as IFR not resting on liquid surface, liquid accumulated on roof, holes/tears in seal fabric, visible gaps or empty vessel or request 30 day extension.	Maintain records that demonstrate that defects, holes, tears, and openings, detected during inspection are repaired before filling the vessel with a volatile organic liquid.
MACT Subpart CC - Tanks  752	40 CFR 63.646(b)(1)	Document any data, assumptions, and procedures used to determine group classification for the storage vessels subject to this Subpart.	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.
MACT Subpart CC - Tanks  753	40 CFR 63.646(f)(1)	Ensure that if a cover or lid is installed on an opening in a floating roof, that it remains closed except when it must be open for access.	Maintain records that demonstrate each opening was designed and built with gasketed covers or lids. Perform visual inspection of the cover during required annual roof seal inspections to ensure all covers and lids are closed.
MACT Subpart CC - Tanks  754	40 CFR 63.646(f)(2)	Ensure that rim space vents are set to open only when the floating roof is not floating or when the pressure beneath the rim seal exceeds the manufacturer's recommended setting.	Maintain records that demonstrate the rim space vents are designed to open only when the floating roof is setting on its legs or when the pressure beneath the seal actually exceeds the manufacturer's recommended setting.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(f)(3)	Ensure that the automatic bleeder vents are closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
755			
MACT Subpart CC - Tanks	40 CFR 63.654(f)(1)(i)(A-D)	Ensure that the Notification of Compliance Status report contains information specified in 40 CFR 63.654(f)(1)(i)(A-D) to include identification of each vessel subject to MACT, group classification, and method of compliance.	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
756			
MACT Subpart CC - Tanks	40 CFR 63.654(f)(3)	Include in the Notification of Compliance Status report information specified in 40 CFR 654(f)(3)(i-iii) regarding monitored parameter for which a range is required to be established under 40 CFR 63.120(d).	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
757			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(2)(i)(B)	Ensure that the Periodic Report submitted in accordance with 40 CFR 63.654(g) includes information specified in 40 CFR 63.654(g)(2)(i)(B) regarding failures found during vessel inspection.	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
758			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(2)(i)(C)	If an extension was used to repair a failure or empty an IFR tank, include in the next Periodic Report, the information specified in 40 CFR 63.654(g)(2)(i)(C).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
759			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(2)(ii)(A-B)	For IFR tanks that were emptied & degassed for which a failure (as defined in 40 CFR 654(g)(2)(ii)(A)) was detected, include the information specified in 40 CFR 654(g)(2)(ii)(B) in the next Periodic Report.	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
760			
MACT Subpart CC - Tanks	40 CFR 63.654(h)(2)(i)(A-C) & 63.120(a)(5-6)	Notify the Administrator in writing at least 30 days prior to refilling IFR tank. If unplanned, notify at least 7 days by telephone and follow-up in writing.	Maintain copies of notifications to the Administrator on site for at least 5 years from date of notification.
761			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
762			

Emission Source ID TK-0553  
Source Description Storage Tank

Process Unit  
No 1 Crude Unit-03

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  763	40 CFR 63.654(i)(1)(i-iii) & 63.123(b)	Maintain a record of all reports submitted in accordance with 40 CFR 63.654(e) including the Notification of Compliance Status, Periodic Reports, and other reports for at least 5 yrs from date of report.	Maintain records to demonstrate compliance for 5 years unless otherwise specified in the referenced citation.
MACT Subpart CC - Tanks  764	40 CFR 63.654(i)(1)(i-iii) & 63.123(c)	For IFR tanks complying with 40 CFR 63.119(b), maintain a record that each inspection required by 40 CFR 63.120(a) was performed for 5 yrs from date of inspection.	Maintain required documentation on site for 5 years unless otherwise specified in the referenced citation.
MACT Subpart CC - Tanks  765	40 CFR 63.654(i)(1)(i-iii) & 63.123(g)	If an extension is used in emptying a tank in accordance with 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8), maintain the documentation outlined in 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8).	Maintain required documentation on site for at least 5 years.

Emission Source ID TK-1006  
Source Description Storage Tank

Process Unit  
Product Loading-96

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  766	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  767	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.

Emission Source ID TK-1007  
Source Description Storage Tank

Process Unit  
Cat Cracking-13

CLASS 1 OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  768	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  769	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.

Emission Source ID TK-1011  
Source Description Storage Tank

Process Unit  
No 1&2 Vacuum Unit-04

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  770	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  771	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  772	40 CFR 63.646(a) & 63.119(a)(1)	Ensure that the tank is equipped with either a fixed roof and IFR, an EFR, an EFR converted to an IFR, CVS with control device, or equivalent system as provided in 40 CFR 63.121.	Maintain records that demonstrate tank is equipped with a fixed roof and internal floating roof.
MACT Subpart CC - Tanks  773	40 CFR 63.646(a) & 63.119(a)(2)	Ensure that the TVP of the stored liquid remains <76.6kPa (11.1psia) or equip the vessel with CVS and control device and comply with the associated requirements.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP > 11.1 psia.
MACT Subpart CC - Tanks  774	40 CFR 63.646(a) & 63.119(a)(2)	Ensure that the TVP of the stored liquid remains <76.6 kPa (11.1 psia) or equip the vessel with CVS and control device and comply with the associated requirements.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP > 11.1 psia.
MACT Subpart CC - Tanks  775	40 CFR 63.646(a) & 63.119(b)(1)	Ensure that the IFR is floating on the liquid surface at all times except when it must be supported by leg supports during initial fill, after vessel has been completely emptied and degassed.	Maintain records to verify that the liquid is at a level which ensures the roof is floating on the liquid surface at all times except when supported by leg supports when emptied and degassed and during filling.
MACT Subpart CC - Tanks  776	40 CFR 63.646(a) & 63.119(b)(2)	Ensure that when the IFR is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as possible.	Follow standard operating procedures to empty or refill the vessel as soon as possible, in a safe and effective manner.
MACT Subpart CC - Tanks  777	40 CFR 63.646(a) & 63.119(b)(3)(i-iii)	Equip the IFR with a closure device between the vessel wall and the roof edge. Device to be a liquid-mounted seal, metallic shoe seal, or two seals one above the other forming a continuous closure.	Maintain records that demonstrate closure consists of a seal between the tank wall and cover edge.
MACT Subpart CC - Tanks  778	40 CFR 63.646(a) & 63.119(b)(4)	Ensure that the automatic bleeder vents are closed at all times when the IFR is floating except when the roof is being floated off or is being landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
MACT Subpart CC - Tanks  779	40 CFR 63.646(a) & 63.120(a)(2)(i)	For single-seal systems, visually inspect the IFR and seals thru manholes and roof hatches on fixed roof once every 12 months after initial fill.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.



Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  780	40 CFR 63.646(a) & 63.120(a)(2)(ii)	For existing sources that have single-seal systems, visually inspect the IFR, and seal each time vessel is emptied and degassed and at least once every 10 years.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.
MACT Subpart CC - Tanks  781	40 CFR 63.646(a) & 63.120(a)(3)(i-iii)	For existing sources with double-seal systems, visually inspect IFR & seals each time tank emptied & degassed & at least once/5 yrs or inspect thru manholes once every 12 mos. and each time tank emptied & degassed at least once/10 yrs.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.
MACT Subpart CC - Tanks  782	40 CFR 63.646(a) & 63.120(a)(7)	Before refilling an existing IFR tank, that has been emptied and degassed, repair any defective conditions detected including holes, tears, or openings in seals or seal fabric.	Maintain records that demonstrate defects detected during inspections are repaired prior to refilling with a volatile organic liquid.
MACT Subpart CC - Tanks  783	40 CFR 63.646(a) & 63.654(g)(2)(i)(A) & 63.120(a)(4)	Within 45 days, repair defective conditions such as IFR not resting on liquid surface, liquid accumulated on roof, holes/tears in seal fabric, visible gaps or empty vessel or request 30 day extension.	Maintain records that demonstrate that defects, holes, tears, and openings, detected during inspection are repaired before filling the vessel with a volatile organic liquid.
MACT Subpart CC - Tanks  784	40 CFR 63.646(b)(1)	Document any data, assumptions, and procedures used to determine group classification for the storage vessels subject to this Subpart.	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.
MACT Subpart CC - Tanks  785	40 CFR 63.646(f)(1)	Ensure that if a cover or lid is installed on an opening in a floating roof, that it remains closed except when it must be open for access.	Maintain records that demonstrate each opening was designed and built with gasketed covers or lids. Perform visual inspection of the cover during required annual roof seal inspections to ensure all covers and lids are closed.
MACT Subpart CC - Tanks  786	40 CFR 63.646(f)(2)	Ensure that rim space vents are set to open only when the floating roof is not floating or when the pressure beneath the rim seal exceeds the manufacturer's recommended setting.	Maintain records that demonstrate the rim space vents are designed to open only when the floating roof is setting on its legs or when the pressure beneath the seal actually exceeds the manufacturer's recommended setting.

Process Unit  
Hydrobon Unit-09

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(f)(3)	Ensure that the automatic bleeder vents are closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
787			
MACT Subpart CC - Tanks	40 CFR 63.654(f)(1)(i)(A-D)	Ensure that the Notification of Compliance Status report contains information specified in 40 CFR 63.654(f)(1)(i)(A-D) to include identification of each vessel subject to MACT, group classification, and method of compliance.	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
788			
MACT Subpart CC - Tanks	40 CFR 63.654(f)(3)	Include in the Notification of Compliance Status report information specified in 40 CFR 654(f)(3)(i-iii) regarding monitored parameter for which a range is required to be established under 40 CFR 63.120(d).	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
789			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(2)(i)(B)	Ensure that the Periodic Report submitted in accordance with 40 CFR 63.654(g) includes information specified in 40 CFR 63.654(g)(2)(i)(B) regarding failures found during vessel inspection.	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
790			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(2)(i)(C)	If an extension was used to repair a failure or empty an IFR tank, include in the next Periodic Report, the information specified in 40 CFR 63.654(g)(2)(i)(C).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
791			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(2)(ii)(A-B)	For IFR tanks that were emptied & degassed for which a failure (as defined in 40 CFR 654(g)(2)(ii)(A)) was detected, include the information specified in 40 CFR 654(g)(2)(ii)(B) in the next Periodic Report.	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
792			
MACT Subpart CC - Tanks	40 CFR 63.654(h)(2)(i)(A-C) & 63.120(a)(5-6)	Notify the Administrator in writing at least 30 days prior to refilling IFR tank. If unplanned, notify at least 7 days by telephone and follow-up in writing.	Maintain copies of notifications to the Administrator on site for at least 5 years from date of notification.
793			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
794			

Emission Source ID TK-1013  
Source Description Storage Tank

Process Unit  
Hydrobon Unit-09

CLASS 1 OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  795	40 CFR 63.654(i)(1)(i-iii) & 63.123(b)	Maintain a record of all reports submitted in accordance with 40 CFR 63.654(e) including the Notification of Compliance Status, Periodic Reports, and other reports for at least 5 yrs from date of report.	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
MACT Subpart CC - Tanks  796	40 CFR 63.654(i)(1)(i-iii) & 63.123(c)	For IFR tanks complying with 40 CFR 63.119(b), maintain a record that each inspection required by 40 CFR 63.120(a) was performed for 5 yrs from date of inspection.	Maintain required documentation on site for 5 years unless otherwise specified in the referenced citation.
MACT Subpart CC - Tanks  797	40 CFR 63.654(i)(1)(i-iii) & 63.123(g)	If an extension is used in emptying a tank in accordance with 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8), maintain the documentation outlined in 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8).	Maintain required documentation on site for at least 5 years.

Emission Source ID TK-1203  
Source Description Storage Tank

Process Unit  
Cat Cracking-13

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  798	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  799	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.

Emission Source ID TK-1206  
Source Description Storage Tank

Process Unit  
No 1 Crude Unit-03

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  800	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  801	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.

Emission Source ID TK-1207  
Source Description Storage Tank

Process Unit  
Coker-12

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  802	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  803	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.

Emission Source ID TK-1208  
Source Description Storage Tank

Process Unit  
Coker-12

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  804	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  805	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  806	40 CFR 63.646(a) & 63.119(a)(1)	Ensure that the tank is equipped with either a fixed roof and IFR, an EFR, an EFR converted to an IFR, CVS with control device, or equivalent system as provided in 40 CFR 63.121.	Maintain records that demonstrate the tank is equipped with an external floating roof.
MACT Subpart CC - Tanks  807	40 CFR 63.646(a) & 63.119(a)(2)	Ensure that the TVP of the stored liquid remains <76.6kPa (11.1psia) or equip the vessel with CVS and control device and comply with the associated requirements.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP > 11.1 psia.
MACT Subpart CC - Tanks  808	40 CFR 63.646(a) & 63.119(c)(1)(iii)	Ensure that primary and secondary seals completely cover the annular space between the EFR and vessel wall in a continuous fashion.	Maintain records that demonstrate seals completely cover the annular space between the roof and vessel wall in a continuous fashion. Inspect seals at a frequency specified in the referenced citation.
MACT Subpart CC - Tanks  809	40 CFR 63.646(a) & 63.119(c)(1)(i-ii)	Equip the EFR with a closure device consisting of two seals, one above the other. Primary seal shall be metallic shoe seal or liquid-mounted seal.	Maintain records that demonstrate the external floating roof is equipped with a closure consisting of two seals, a primary mechanical shoe seal or a liquid mounted seal and a rim-mounted secondary seal.
MACT Subpart CC - Tanks  810	40 CFR 63.646(a) & 63.119(c)(1)(iv)	Ensure that the EFR is equipped with a secondary seal.	Maintain records that demonstrate the tank is equipped with a rim-mounted secondary seal.
MACT Subpart CC - Tanks  811	40 CFR 63.646(a) & 63.119(c)(3)(i-iii)	Ensure EFR is floating on liquid surface at all times except when supported by leg supports during initial fill, after emptied and degassed, and when emptied before being subsequently refilled.	Maintain records to verify that the liquid is at a level which ensures the roof is floating on the liquid surface at all times except when supported by leg supports when emptied and degassed and during filling.
MACT Subpart CC - Tanks  812	40 CFR 63.646(a) & 63.119(c)(4)	Ensure that when the EFR is resting on leg supports that the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as possible.	Follow standard operating procedures to empty or refill the vessel as soon as possible, in a safe and effective manner.



Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(1)(i)	For EFR tanks with double seals, measure the gaps between the vessel wall and primary seal during the hydrostatic testing of the tank.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
813			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(1)(iii)	For EFR tanks with double seals, measure the gaps between the vessel wall and secondary seal.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
814			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(1)(iv)	If vessel ceases to store organic HAP or TVP falls below threshold for 1 year or >, seal gap measurements shall be performed within 90 days of refilling EFR tank with HAP.	Maintain a log of tank service. Gap measurements are performed within 90 days for any tank that is out-of-service for 1 year or more.
815			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(10)	Visually inspect the EFR, seals, and fittings each time the vessel is emptied and degassed.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.
816			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(10)(i)	For existing sources, repair defects found during inspection of emptied & degassed EFR tank before refilling with HAP. Defects include: holes, tears, openings in seal or seal fabric.	Maintain records that demonstrate defects detected during inspections are repaired prior to refilling with a volatile organic liquid.
817			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(10)(ii-iii)	Notify Administrator in writing 30 days prior to filling or refilling each emptied/degassed EFR tank. If unplanned inspection, make notification at least 7 days prior by phone and follow-up in writing.	Maintain copies of notifications to the Administrator on site for at least 5 years from date of notification.
818			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(2)(i-iii)	Ensure that all gap measurements on the EFR are made according to the guidelines outlined in 40 CFR 63.120(b)(2)(i-iii).	Calculate gap areas using the method and guidelines in the specified citation. Retain these calculations for at least 5 years following the date of measurement.
819			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(3)	Ensure that the accumulated area of gaps between EFR tank wall and primary seal does not exceed 212 sq. cm/m diameter and width of any gap does not exceed 3.81 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
820			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(4)	Ensure that the accumulated area of gaps between EFR tank wall and secondary seal does not exceed 21.2 sq. cm/m diameter and width of any gap does not exceed 1.27 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
821			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(5)(i)	If metallic shoe seal is in use, ensure one end of the seal extends into the stored liquid and other end extends a minimum vertical distance of 61 cm above the stored liquid surface.	Maintain records that demonstrate the mechanical shoe seal is designed to have one end extend into the stored liquid and the other end extend a minimum vertical distance of 61 cm above the stored liquid surface.
822			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(5)(ii) & (b)(6)(ii)	Ensure that there are no holes, tears, or other openings in the shoe, seal fabric, or seal envelope of the primary seal or secondary seal of the EFR.	Verify the condition of the primary and/or secondary seals during routine inspections. Maintain a record of the inspections.
823			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(6)(i)	Ensure that the secondary seal is installed above the primary seal so that it completely covers the space between the roof edge and the EFR tank wall.	Verify the condition of the primary and/or secondary seals during routine inspections. Maintain a record of the inspections.
824			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(7)(i-ii)	If unsafe to perform seal gap measurements because the EFR is structurally unsound, measure gaps or inspect no later than 30 days after determination of roof unsafe or empty tank within 45 days or request extension.	Measure gaps within 30 days (records are maintained on site for measurement) or tank is emptied. If extension is requested, a copy of the request is maintained on site for at least 5 years.
825			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(8)	Within 45 days, repair any conditions that do not meet requirements (such as gap width/area exceedances, holes in seal/seal fabric, seals not installed as required) or remove EFR tank from service or request extension.	Maintain records to demonstrate that repairs are made in a timely manner and completed within 45 days, or that the tank is empty unless an extension is requested. Maintain a copy of the extension request on site for 5 years.
826			

Emission Source ID TK-14A2  
Source Description Storage Tank

Process Unit  
Sewer and WW-30

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(b)(1)	Document any data, assumptions, and procedures used to determine group classification for the storage vessels subject to this Subpart.	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.
827			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(1)	Ensure that if a cover or lid is installed on an opening in a floating roof, that it remains closed except when it must be open for access.	Maintain records that demonstrate each opening was designed and built with gasketed covers or lids. Perform visual inspection of the cover during required annual roof seal inspections to ensure all covers and lids are closed.
828			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(3)	Ensure that the automatic bleeder vents are closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
829			
MACT Subpart CC - Tanks	40 CFR 63.654(f)(1)(i)(A-D)	Ensure that the Notification of Compliance Status report contains information specified in 40 CFR 63.654(f)(1)(i)(A-D) to include identification of each vessel subject to MACT, group classification, and method of compliance.	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
830			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(i)(A-D)	For the seal gap measurements of EFR tanks in which the gap limits were exceeded, submit with the Periodic Report, the information specified in 40 CFR 654(g)(3)(i)(A-D).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
831			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(ii)	If an extension was used to repair a failure or empty a tank, include in the next Periodic Report the information specified in 40 CFR 654(g)(3)(ii).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
832			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(iii)(B)	For inspections of emptied & degassed EFR tanks, include in the next Periodic Report the information specified in 40 CFR 654(g)(3)(iii)(B) of any failures detected as defined in 40 CFR 654(g)(3)(iii)(A).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
833			
MACT Subpart CC - Tanks	40 CFR 63.654(h)(2)(ii) & 63.120(b)(9)	Notify the Administrator in writing 30 days prior to gap measurements of the EFR tank.	Maintain copies of notifications to the Administrator on site for at least 5 years from date of notification.
834			

Emission Source ID TK-14A2  
Source Description Storage Tank

Process Unit  
Sewer and WW-30

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  835	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  836	40 CFR 63.654(i)(1)(i-iii) & 63.123(b)	Maintain a record of all reports submitted in accordance with 40 CFR 63.654(e) including the Notification of Compliance Status, Periodic Reports, and other reports for at least 5 yrs from date of report.	Maintain copies of reports on site for at least 5 years from date of report.
MACT Subpart CC - Tanks  837	40 CFR 63.654(i)(1)(i-iii) & 63.123(d)	For EFR tanks complying with 40 CFR 63.119(c), maintain records (for at least 5 yrs from date of measurement) describing the results of each seat gap measurement made including date of measurement, raw data, and calculations.	Maintain records of each gap measurement on site for at least 5 years following date of measurement.
MACT Subpart CC - Tanks  838	40 CFR 63.654(i)(1)(i-iii) & 63.123(g)	If an extension is used in emptying a tank in accordance with 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8), maintain the documentation outlined in 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8).	Maintain required documentation on site for at least 5 years.
NSPS Subpart QQQ  839	40 CFR 60.693-2	Standard: Alternative Standard for Oil-Water Separators	Use compliance methods described in source #CG-WWT1. For oil water separators complying via the alternate standards, follow all compliance methods for 60.693-2.

Emission Source ID TK-14A3  
Source Description Storage Tank

Process Unit  
Cat Cracking-13

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KAR-HC Emissions  840	KAR 28-19-23(A)(1)	Ensure that the tank is equipped with a floating roof such as a pontoon type, double deck type, or internal floating cover and that the liquid stored has a True Vapor Pressure (TVP) of <13.0 psia.	Maintain records that demonstrate the tank is equipped with an external floating roof and stores liquid with a TVP <13.0 psia.
KAR-HC Emissions  841	KAR 28-19-23(A)(1)	Ensure that floating roof rests on the surface of the liquid contents and is equipped with a closure seal or seals to close the space between the roof edge and tank wall.	Maintain records that demonstrate the external floating roof closure device consists of 2 seals, a primary mechanical shoe seal or liquid mounted seal and a rim-mounted secondary seal. Maintain records that verify the liquid level ensures that the roof is floating at all times.
KAR-HC Emissions  842	KAR 28-19-23(A)(1)	Ensure that all tank gauging or sampling devices are gas-tight except when tank gauging or sampling is taking place.	Maintain records that demonstrate tank gauging equipment and sampling devices are designed to be gas-tight except when gauging and sampling is taking place.
MACT Subpart CC - Tanks  843	40 CFR 63.640(n)(8)(i)	Storage vessels that are to comply with §60.112b(a)(2) of subpart Kb are exempt from the secondary seal requirements of §60.112b(a)(2)(i)(B) during the gap measurements for the primary seal required by §60.113b(b) of subpart Kb.	Seal gaps will be measured according to the technique specified in the referenced citation. Records of the measurement will be maintained according to regulation to document the event.
MACT Subpart CC - Tanks  844	40 CFR 63.640(n)(8)(ii)	If it is unsafe to perform gap measurements because the roof appears to be structurally unsound, the owner or operator shall comply with the requirements in either §63.120(b)(7)(i) or §63.120(b)(7)(ii).	Seal gaps will be measured according to the technique specified in the referenced citation. Records of the measurement will be maintained according to regulation to document the event.
MACT Subpart CC - Tanks  845	40 CFR 63.640(n)(8)(iii)	If a failure is detected during the inspections required by §60.113b(a)(2) or during the seal gap measurements required by §60.113b(b)(1), and the vessel cannot be repaired or emptied within 45 days, utilize up to 30 extra calendar days for repairs.	Seal gaps will be measured according to the technique specified in the referenced citation. Records of the measurement will be maintained according to regulation to document the event.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
846 MACT Subpart CC - Tanks	40 CFR 63.640(n)(8)(iv)	If an extension is utilized in accordance with §63.640(n)(8)(iii), provide the information listed in §60.113b(a)(2) or §60.113b(b)(4)(iii), and describe the nature and date the vessel was emptied or repaired.	Seal gaps will be measured according to the technique specified in the referenced citation. Records of the measurement will be maintained according to regulation to document the event.
847 MACT Subpart CC - Tanks	40 CFR 63.640(n)(8)(vi)	Rim seal inspection reports specified in §60.115b(b)(2) are not required if none of the measured gaps or calculated gap areas exceed the limitations in §60.113b(b)(4). Documentation of the inspections shall be recorded as specified in §60.115b(b)(3).	Seal gaps will be measured according to the technique specified in the referenced citation. Records of the measurement will be maintained according to regulation to document the event.
848 NSPS Subpart Kb	40 CFR 60.112b(a)	Equip vessel with fixed roof and IFR, EFR, closed vent system and control device, or a system equivalent to these.	Maintain records that demonstrate the tank is equipped with an external floating roof.
849 NSPS Subpart Kb	40 CFR 60.112b(a)(2)	Ensure that the EFR is a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof.	Maintain records that demonstrate the external floating roof is a pontoon-type cover that is designed to rest on the surface of the liquid.
850 NSPS Subpart Kb	40 CFR 60.112b(a)(2)(i)(A-B)	Equip the EFR with a two seal closure device (one above the other) in which the primary seal is either a mechanical shoe seal, or a liquid-mounted seal. Ensure that the seals completely cover the annular space between edge of floating roof and tank wall.	Maintain records that demonstrate closure consists of two seals, a primary mechanical shoe seal and secondary wiper seals designed to cover the annular space between the tank wall and the edge of the floating roof.
851 NSPS Subpart Kb	40 CFR 60.112b(a)(2)(ii)	Provide a projection below the liquid surface for each opening in a non-contact EFR (except for automatic bleeder vents and rim space vents).	Maintain records that demonstrate each opening, except bleeder vents and rim space vents, in the floating roof is designed to project below the liquid surface.
852 NSPS Subpart Kb	40 CFR 60.112b(a)(2)(ii)	Provide each emergency roof drain in the EFR with a slotted membrane fabric cover that covers at least 90% of the area of the opening.	Maintain records that demonstrate the roof drain is equipped with a slotted membrane fabric that covers at least 90% of the open area.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart Kb	40 CFR 60.112b(a)(2)(ii)	Ensure that rim space vents are set to open when the EFR is being floated off the roof leg supports or at the manufacturer's recommended setting.	Maintain records that demonstrate the rim space vents are designed to open only when the floating roof is setting on its legs or when the pressure beneath the seal actually exceeds the manufacturer's recommended setting.
853 NSPS Subpart Kb	40 CFR 60.112b(a)(2)(ii)	Equip each opening in an EFR with a gasketed cover, seal, or lid that is to be maintained in a closed position at all times except when device is in actual use (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves).	Maintain records that demonstrate each opening was designed and built with gasketed covers or lids. Perform visual inspection of the cover during required annual roof seal inspections to ensure all covers and lids are closed.
854 NSPS Subpart Kb	40 CFR 60.112b(a)(2)(ii)	Ensure that automatic bleeder vents are closed at all times when the EFR is floating except when the roof is being floated off or being landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
855 NSPS Subpart Kb	40 CFR 60.112b(a)(2)(ii)	Automatic bleeder vents and rim space vents on the EFR are to be gasketed.	Maintain records that demonstrate automatic bleeder vents and rim space vents are gasketed.
856 NSPS Subpart Kb	40 CFR 60.112b(a)(2)(iii)	Ensure that the EFR is floating on the liquid at all times except during initial fill until the roof is lifted off the leg supports and when the tank is completely emptied and subsequently refilled.	Maintain records to verify that the liquid is at a level which ensures the roof is floating on the liquid surface at all times except when supported by leg supports when emptied and degassed and during filling.
857 NSPS Subpart Kb	40 CFR 60.112b(a)(2)(iii)	Ensure that the process of filling, emptying, or refilling when the EFR is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible.	Follow standard operating procedures to empty or refill the vessel as soon as possible, in a safe and effective manner.
858 NSPS Subpart Kb	40 CFR 60.112b(b)	Ensure that the TVP of the tank contents is <11.1 psia or equip the vessel with a vapor recovery and disposal system to comply with all the requirements accordingly.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP > 11.1 psia.
859			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart Kb	40 CFR 60.113b(b)(1)(i)	Measure gaps between tank wall and primary seal during hydrostatic testing of the EFR vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Measure according to 40 CFR 60.113b(b)(2-3).	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.
860			
NSPS Subpart Kb	40 CFR 60.113b(b)(1)(ii)	Measure gaps between tank wall and secondary seal within 60 days of initial fill with VOL of the EFR tank and at least once per year thereafter. Measure according to 40 CFR 60.113b(b)(2-3).	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.
861			
NSPS Subpart Kb	40 CFR 60.113b(b)(1)(iii)	Ensure that if EFR tank ceases to store VOL for a period of 1 year or more, subsequent filling of VOL into vessel is treated as an initial fill. Make measurements according to method outlined in 40 CFR 60.113b(b)(2-3).	Maintain a log of tank service. Any tank that is out-of-service for 1 year or more is treated as an initial fill upon refill with an organic liquid.
862			
NSPS Subpart Kb	40 CFR 60.113b(b)(4) & (b)(4)(iii)	If the accumulated area of gaps or gap widths are exceeded, or mechanical shoe does not extend into or above the liquid surface as required, within 45 days make necessary repairs or empty EFR vessel or request 30 day extension from Administrator.	Maintain copies of reports on site for at least 5 years from date of report.
863			
NSPS Subpart Kb	40 CFR 60.113b(b)(4)(i)	Ensure that the accumulated area of gaps between EFR tank wall and mechanical shoe seal or liquid-mounted primary seal does not exceed 212 sq. cm/m diameter and width of any portion of gap does not exceed 3.81 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
864			
NSPS Subpart Kb	40 CFR 60.113b(b)(4)(i)(A)	Ensure that one end of the mechanical shoe on the EFR extends into the stored liquid, and the other end extends a minimum vertical distance of 61 cm above stored liquid surface.	Maintain records that demonstrate the mechanical shoe seal is designed to have one end extend into the stored liquid and the other end extend a minimum vertical distance of 61 cm above the stored liquid surface.
865			
NSPS Subpart Kb	40 CFR 60.113b(b)(4)(i)(B)	Ensure that there are no holes, tears, or other openings in the shoe, seal fabric, or seal envelope of the primary seal on the EFR.	Verify the condition of the primary and/or secondary seals during routine inspections. Maintain a record of the inspections.
866			



Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart Kb	40 CFR 60.113b(b)(4)(ii)(A)	Ensure that the secondary seal is installed above the primary seal so that it completely covers the space between the roof edge and the tank wall.	Verify the condition of the primary and/or secondary seals during routine inspections. Maintain a record of the inspections.
867			
NSPS Subpart Kb	40 CFR 60.113b(b)(4)(ii)(B)	Ensure that the accumulated area of gaps between the EFR tank wall and the secondary seal does not exceed 21.2 sq. cm/m diameter and width of any portion of gap does not exceed 1.27 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
868			
NSPS Subpart Kb	40 CFR 60.113b(b)(4)(ii)(C)	Ensure that there are no holes, tears, or other openings in the shoe, seal fabric, or seal envelope of the secondary seal on the EFR.	Verify the condition of the primary and/or secondary seals during routine inspections. Maintain a record of the inspections.
869			
NSPS Subpart Kb	40 CFR 60.113b(b)(5)	Notify the Administrator in writing 30 days prior to gap measurements on the EFR tank.	Maintain copies of notifications to the Administrator on site for at least 5 years from date of notification.
870			
NSPS Subpart Kb	40 CFR 60.113b(b)(6)	Visually inspect the EFR, primary seal, secondary seal, and fittings each time the vessel is emptied and degassed.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.
871			
NSPS Subpart Kb	40 CFR 60.113b(b)(6)(i)	If defects including seals with holes, tears, or other openings, are detected during inspection of an emptied & degassed EFR tank, repair the items as necessary before filling or refilling vessel with VOL.	Maintain records that demonstrate defects detected during inspections are repaired prior to refilling with a volatile organic liquid.
872			
NSPS Subpart Kb	40 CFR 60.113b(b)(6)(ii)	For all inspections where EFR tank was emptied & degassed, notify the Administrator in writing 30 days prior to refilling. If inspection was unplanned, notify the Administrator at least 7 days prior by telephone and follow-up in writing.	Maintain copies of notifications to the Administrator on site for at least 5 years from date of notification.
873			
NSPS Subpart Kb	40 CFR 60.115b(b)(1)	Submit a report to the Administrator that describes the control equipment (i.e. EFR) and certifies that the control equipment meets the specifications of this regulation. Attach report with notification required in 40 CFR 60.7(a)(3).	Maintain copies of reports on site for at least 5 years from date of report.
874			

Emission Source ID TK-14A3  
Source Description Storage Tank

Process Unit  
Cat Cracking-13

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart Kb	40 CFR 60.115b(b)(2)	Submit report to Administrator within 60 days of seal gap measurements on the EFR tank. Report should contain date of measurement, raw data, and calculations.	Maintain copies of reports on site for at least 5 years from date of report.
875			
NSPS Subpart Kb	40 CFR 60.115b(b)(3)	Maintain a record for at least 5 years of each gap measurement performed as required on the EFR tank. Record shall identify vessel measured, date of measurement, raw data, and calculations.	Maintain records of inspections and other data on site for at least 5 years.
876			
NSPS Subpart Kb	40 CFR 60.115b(b)(4)	If gaps in exceedance of the limitation are detected on the EFR, submit a report to the Administrator within 30 days of the inspection. Identify the vessel, date of measurement, raw data, calculations, and date vessel was emptied or repaired.	Maintain copies of reports on site for at least 5 years from date of report.
877			
NSPS Subpart Kb	40 CFR 60.116b(b)	Keep readily accessible records for the life of the source showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel (unless the vessel has design capacity <75 cu. m).	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
878			
NSPS Subpart Kb	40 CFR 60.116b(c)	Maintain a record for at least 5 years of the VOL stored, the period of storage, and the max TVP of that VOL during the respective storage period.	Maintain records of inspections and other data on site for at least 5 years.
879			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  880	40 CFR 63.646(a) & 63.119(a)(1)	Ensure that the tank is equipped with either a fixed roof and IFR, an EFR, an EFR converted to an IFR, CVS with control device, or equivalent system as provided in 40 CFR 63.121.	Maintain records that demonstrate tank is equipped with a fixed roof and internal floating roof.
MACT Subpart CC - Tanks  881	40 CFR 63.646(a) & 63.119(a)(2)	Ensure that the TVP of the stored liquid remains <76.6kPa (11.1psia) or equip the vessel with CVS and control device and comply with the associated requirements.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP > 11.1 psia.
MACT Subpart CC - Tanks  882	40 CFR 63.646(a) & 63.119(b)(1)	Ensure that the IFR is floating on the liquid surface at all times except when it must be supported by leg supports during initial fill, after vessel has been completely emptied and degassed.	Maintain records to verify that the liquid is at a level which ensures the roof is floating on the liquid surface at all times except when supported by leg supports when emptied and degassed and during filling.
MACT Subpart CC - Tanks  883	40 CFR 63.646(a) & 63.119(b)(2)	Ensure that when the IFR is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as possible.	Follow standard operating procedures to empty or refill the vessel as soon as possible, in a safe and effective manner.
MACT Subpart CC - Tanks  884	40 CFR 63.646(a) & 63.119(b)(3)(i-iii)	Equip the IFR with a closure device between the vessel wall and the roof edge. Device to be a liquid-mounted seal, metallic shoe seal, or two seals one above the other forming a continuous closure.	Maintain records that demonstrate closure consists of a seal between the tank wall and cover edge.
MACT Subpart CC - Tanks  885	40 CFR 63.646(a) & 63.119(b)(4)	Ensure that the automatic bleeder vents are closed at all times when the IFR is floating except when the roof is being floated off or is being landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
MACT Subpart CC - Tanks  886	40 CFR 63.646(a) & 63.120(a)(2)(i)	For single-seal systems, visually inspect the IFR and seals thru manholes and roof hatches on fixed roof once every 12 months after initial fill.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  887	40 CFR 63.646(a) & 63.120(a)(2)(ii)	For existing sources that have single-seal systems, visually inspect the IFR, and seal each time vessel is emptied and degassed and at least once every 10 years.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.
MACT Subpart CC - Tanks  888	40 CFR 63.646(a) & 63.120(a)(3)(i-iii)	For existing sources with double-seal systems, visually inspect IFR & seals each time tank emptied & degassed & at least once/5 yrs or inspect thru manholes once every 12 mos. and each time tank emptied & degassed at least once/10 yrs.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.
MACT Subpart CC - Tanks  889	40 CFR 63.646(a) & 63.120(a)(7)	Before refilling an existing IFR tank, that has been emptied and degassed, repair any defective conditions detected including holes, tears, or openings in seals or seal fabric.	Maintain records that demonstrate defects detected during inspections are repaired prior to refilling with a volatile organic liquid.
MACT Subpart CC - Tanks  890	40 CFR 63.646(a) & 63.654(g)(2)(i)(A) & 63.120(a)(4)	Within 45 days, repair defective conditions such as IFR not resting on liquid surface, liquid accumulated on roof, holes/tears in seal fabric, visible gaps or empty vessel or request 30 day extension.	Maintain records that demonstrate that defects, holes, tears, and openings, detected during inspection are repaired before filling the vessel with a volatile organic liquid.
MACT Subpart CC - Tanks  891	40 CFR 63.646(b)(1)	Document any data, assumptions, and procedures used to determine group classification for the storage vessels subject to this Subpart.	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.
MACT Subpart CC - Tanks  892	40 CFR 63.646(f)(1)	Ensure that if a cover or lid is installed on an opening in a floating roof, that it remains closed except when it must be open for access.	Maintain records that demonstrate each opening was designed and built with gasketed covers or lids. Perform visual inspection of the cover during required annual roof seal inspections to ensure all covers and lids are closed.
MACT Subpart CC - Tanks  893	40 CFR 63.646(f)(3)	Ensure that the automatic bleeder vents are closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.654(f)(1)(i)(A-D)	Ensure that the Notification of Compliance Status report contains information specified in 40 CFR 63.654(f)(1)(i)(A-D) to include identification of each vessel subject to MACT, group classification, and method of compliance.	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
894			
MACT Subpart CC - Tanks	40 CFR 63.654(f)(3)	Include in the Notification of Compliance Status report information specified in 40 CFR 654(f)(3)(i-iii) regarding monitored parameter for which a range is required to be established under 40 CFR 63.120(d).	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
895			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(2)(i)(B)	Ensure that the Periodic Report submitted in accordance with 40 CFR 63.654(g) includes information specified in 40 CFR 63.654(g)(2)(i)(B) regarding failures found during vessel inspection.	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
896			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(2)(i)(C)	If an extension was used to repair a failure or empty an IFR tank, include in the next Periodic Report, the information specified in 40 CFR 63.654(g)(2)(i)(C).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
897			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(2)(ii)(A-B)	For IFR tanks that were emptied & degassed for which a failure (as defined in 40 CFR 654(g)(2)(ii)(A)) was detected, include the information specified in 40 CFR 654(g)(2)(ii)(B) in the next Periodic Report.	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
898			
MACT Subpart CC - Tanks	40 CFR 63.654(h)(2)(i)(A-C) & 63.120(a)(5-6)	Notify the Administrator in writing at least 30 days prior to refilling IFR tank. If unplanned, notify at least 7 days by telephone and follow-up in writing.	Maintain copies of notifications to the Administrator on site for at least 5 years from date of notification.
899			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
900			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1)(i-iii) & 63.123(b)	Maintain a record of all reports submitted in accordance with 40 CFR 63.654(e) including the Notification of Compliance Status, Periodic Reports, and other reports for at least 5 yrs from date of report.	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
901			

Emission Source ID TK-1502  
Source Description Storage Tank

Process Unit  
Hydrobon Unit-09

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  902	40 CFR 63.654(i)(1)(i-iii) & 63.123(c)	For IFR tanks complying with 40 CFR 63.119(b), maintain a record that each inspection required by 40 CFR 63.120(a) was performed for 5 yrs from date of inspection.	Maintain required documentation on site for 5 years unless otherwise specified in the referenced citation.
MACT Subpart CC - Tanks  903	40 CFR 63.654(i)(1)(i-iii) & 63.123(g)	If an extension is used in emptying a tank in accordance with 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8), maintain the documentation outlined in 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8).	Maintain required documentation on site for at least 5 years.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KAR-HC Emissions	KAR 28-19-23(A)(1)	Ensure that the tank is equipped with a floating roof such as a pontoon type, double deck type, or internal floating cover and that the liquid stored has a True Vapor Pressure (TVP) of <13.0 psia.	Maintain records that demonstrate the tank is equipped with an external floating roof and stores liquid with a TVP <13.0 psia.
904			
KAR-HC Emissions	KAR 28-19-23(A)(1)	Ensure that floating roof rests on the surface of the liquid contents and is equipped with a closure seal or seals to close the space between the roof edge and tank wall.	Maintain records that demonstrate the external floating roof closure device consists of 2 seals, a primary mechanical shoe seal or liquid mounted seal and a rim-mounted secondary seal. Maintain records that verify the liquid level ensures that the roof is floating at all times.
905			
KAR-HC Emissions	KAR 28-19-23(A)(1)	Ensure that all tank gauging or sampling devices are gas-tight except when tank gauging or sampling is taking place.	Maintain records that demonstrate tank gauging equipment and sampling devices are designed to be gas-tight except when gauging and sampling is taking place.
906			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(a)(1)	Ensure that the tank is equipped with either a fixed roof and IFR, an EFR, an EFR converted to an IFR, CVS with control device, or equivalent system as provided in 40 CFR 63.121.	Maintain records that demonstrate the tank is equipped with an external floating roof.
907			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(a)(2)	Ensure that the TVP of the stored liquid remains <76.6kPa (11.1psia) or equip the vessel with CVS and control device and comply with the associated requirements.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP > 11.1 psia.
908			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(1)(iii)	Ensure that primary and secondary seals completely cover the annular space between the EFR and vessel wall in a continuous fashion.	Maintain records that demonstrate seals completely cover the annular space between the roof and vessel wall in a continuous fashion. Inspect seals at a frequency specified in the referenced citation.
909			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(1)(i-ii)	Equip the EFR with a closure device consisting of two seals, one above the other. Primary seal shall be metallic shoe seal or liquid-mounted seal.	Maintain records that demonstrate the external floating roof is equipped with a closure consisting of two seals, a primary mechanical shoe seal or a liquid mounted seal and a rim-mounted secondary seal.
910			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks 911	40 CFR 63.646(a) & 63.119(c)(1)(iv)	Ensure that the EFR is equipped with a secondary seal.	Maintain records that demonstrate the tank is equipped with a rim-mounted secondary seal.
MACT Subpart CC - Tanks 912	40 CFR 63.646(a) & 63.119(c)(3)(i-iii)	Ensure EFR is floating on liquid surface at all times except when supported by leg supports during initial fill, after emptied and degassed, and when emptied before being subsequently refilled.	Maintain records to verify that the liquid is at a level which ensures the roof is floating on the liquid surface at all times except when supported by leg supports when emptied and degassed and during filling.
MACT Subpart CC - Tanks 913	40 CFR 63.646(a) & 63.119(c)(4)	Ensure that when the EFR is resting on leg supports that the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as possible.	Follow standard operating procedures to empty or refill the vessel as soon as possible, in a safe and effective manner.
MACT Subpart CC - Tanks 914	40 CFR 63.646(a) & 63.120(b)(1)(i)	For EFR tanks with double seals, measure the gaps between the vessel wall and primary seal during the hydrostatic testing of the tank.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
MACT Subpart CC - Tanks 915	40 CFR 63.646(a) & 63.120(b)(1)(iii)	For EFR tanks with double seals, measure the gaps between the vessel wall and secondary seal.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
MACT Subpart CC - Tanks 916	40 CFR 63.646(a) & 63.120(b)(1)(iv)	If vessel ceases to store organic HAP or TVP falls below threshold for 1 year or >, seal gap measurements shall be performed within 90 days of refilling EFR tank with HAP.	Maintain a log of tank service. Gap measurements are performed within 90 days for any tank that is out-of-service for 1 year or more.
MACT Subpart CC - Tanks 917	40 CFR 63.646(a) & 63.120(b)(10)	Visually inspect the EFR, seals, and fittings each time the vessel is emptied and degassed.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.



Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(10)(i)	For existing sources, repair defects found during inspection of emptied & degassed EFR tank before refilling with HAP. Defects include: holes, tears, openings in seal or seal fabric.	Maintain records that demonstrate defects detected during inspections are repaired prior to refilling with a volatile organic liquid.
918			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(10)(ii-iii)	Notify Administrator in writing 30 days prior to filling or refilling each emptied/degassed EFR tank. If unplanned inspection, make notification at least 7 days prior by phone and follow-up in writing.	Maintain copies of notifications to the Administrator on site for at least 5 years from date of notification.
919			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(2)(i-iii)	Ensure that all gap measurements on the EFR are made according to the guidelines outlined in 40 CFR 63.120(b)(2)(i-iii).	Calculate gap areas using the method and guidelines in the specified citation. Retain these calculations for at least 5 years following the date of measurement.
920			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(3)	Ensure that the accumulated area of gaps between EFR tank wall and primary seal does not exceed 212 sq. cm/m diameter and width of any gap does not exceed 3.81 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
921			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(4)	Ensure that the accumulated area of gaps between EFR tank wall and secondary seal does not exceed 21.2 sq. cm/m diameter and width of any gap does not exceed 1.27 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
922			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(5)(i)	If metallic shoe seal is in use, ensure one end of the seal extends into the stored liquid and other end extends a minimum vertical distance of 61 cm above the stored liquid surface.	Maintain records that demonstrate the mechanical shoe seal is designed to have one end extend into the stored liquid and the other end extend a minimum vertical distance of 61 cm above the stored liquid surface.
923			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(5)(ii) & (b)(6)(ii)	Ensure that there are no holes, tears, or other openings in the shoe, seal fabric, or seal envelope of the primary seal or secondary seal of the EFR.	Verify the condition of the primary and/or secondary seals during routine inspections. Maintain a record of the inspections.
924			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(6)(i)	Ensure that the secondary seal is installed above the primary seal so that it completely covers the space between the roof edge and the EFR tank wall.	Verify the condition of the primary and/or secondary seals during routine inspections. Maintain a record of the inspections.
925			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(7)(i-ii)	If unsafe to perform seal gap measurements because the EFR is structurally unsound, measure gaps or inspect no later than 30 days after determination of roof unsafe or empty tank within 45 days or request extension.	Measure gaps within 30 days (records are maintained on site for measurement) or tank is emptied. If extension is requested, a copy of the request is maintained on site for at least 5 years.
926			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(8)	Within 45 days, repair any conditions that do not meet requirements (such as gap width/area exceedances, holes in seal/seal fabric, seals not installed as required) or remove EFR tank from service or request extension.	Maintain records to demonstrate that repairs are made in a timely manner and completed within 45 days, or that the tank is empty unless an extension is requested. Maintain a copy of the extension request on site for 5 years.
927			
MACT Subpart CC - Tanks	40 CFR 63.646(b)(1)	Document any data, assumptions, and procedures used to determine group classification for the storage vessels subject to this Subpart.	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.
928			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(1)	Ensure that if a cover or lid is installed on an opening in a floating roof, that it remains closed except when it must be open for access.	Maintain records that demonstrate each opening was designed and built with gasketed covers or lids. Perform visual inspection of the cover during required annual roof seal inspections to ensure all covers and lids are closed.
929			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(3)	Ensure that the automatic bleeder vents are closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
930			
MACT Subpart CC - Tanks	40 CFR 63.654(f)(1)(i)(A-D)	Ensure that the Notification of Compliance Status report contains information specified in 40 CFR 63.654(f)(1)(i)(A-D) to include identification of each vessel subject to MACT, group classification, and method of compliance.	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
931			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(i)(A-D)	For the seal gap measurements of EFR tanks in which the gap limits were exceeded, submit with the Periodic Report, the information specified in 40 CFR 654(g)(3)(i)(A-D).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
932			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(ii)	If an extension was used to repair a failure or empty a tank, include in the next Periodic Report the information specified in 40 CFR 654(g)(3)(ii).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
933			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(iii)(B)	For inspections of emptied & degassed EFR tanks, include in the next Periodic Report the information specified in 40 CFR 654(g)(3)(iii)(B) of any failures detected as defined in 40 CFR 654(g)(3)(iii)(A).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
934			
MACT Subpart CC - Tanks	40 CFR 63.654(h)(2)(ii) & 63.120(b)(9)	Notify the Administrator in writing 30 days prior to gap measurements of the EFR tank.	Maintain copies of notifications to the Administrator on site for at least 5 years from date of notification.
935			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
936			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1)(i-iii) & 63.123(b)	Maintain a record of all reports submitted in accordance with 40 CFR 63.654(c) including the Notification of Compliance Status, Periodic Reports, and other reports for at least 5 yrs from date of report.	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
937			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1)(i-iii) & 63.123(d)	For EFR tanks complying with 40 CFR 63.119(c), maintain records (for at least 5 yrs from date of measurement) describing the results of each seal gap measurement made including date of measurement, raw data, and calculations.	Maintain records of each gap measurement on site for at least 5 years following date of measurement.
938			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1)(i-iii) & 63.123(g)	If an extension is used in emptying a tank in accordance with 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8), maintain the documentation outlined in 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8).	Maintain required documentation on site for at least 5 years.
939			

Emission Source ID TK-15A2  
Source Description Storage Tank

Process Unit  
No 1 Crude Unit-03

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KAR-HC Emissions	KAR 28-19-23(A)(1)	Ensure that the tank is equipped with a floating roof such as a pontoon type, double deck type, or internal floating cover and that the liquid stored has a True Vapor Pressure (TVP) of <13.0 psia.	Maintain records that demonstrate the tank is equipped with an external floating roof and stores liquid with a TVP <13.0 psia.
940			
KAR-HC Emissions	KAR 28-19-23(A)(1)	Ensure that floating roof rests on the surface of the liquid contents and is equipped with a closure seal or seals to close the space between the roof edge and tank wall.	Maintain records that demonstrate the external floating roof closure device consists of 2 seals, a primary mechanical shoe seal or liquid mounted seal and a rim-mounted secondary seal. Maintain records that verify the liquid level ensures that the roof is floating at all times.
941			
KAR-HC Emissions	KAR 28-19-23(A)(1)	Ensure that all tank gauging or sampling devices are gas-tight except when tank gauging or sampling is taking place.	Maintain records that demonstrate tank gauging equipment and sampling devices are designed to be gas-tight except when gauging and sampling is taking place.
942			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119 (c)(1)(i-ii)	Equip the EFR with a closure device consisting of 2 seals, one above the other. Primary seal shall be metallic shoe seal or liquid-mounted seal.	Maintain records that demonstrate the external floating roof is equipped with a closure consisting of two seals, a primary mechanical shoe seal or liquid mounted seal and a rim-mounted secondary seal.
943			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(a)(1)	Ensure that the tank is equipped w/either a fixed roof & IFR, an EFR, an EFR converted to an IFR, CVS w/control device, or equivalent system as provided in 40 CFR 63.121.	Maintain records that demonstrate the tank is equipped with an external floating roof.
944			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(a)(2)	Ensure that the TVP of the stored liquid remains <76.6kPa (11.1psia) or equip the vessel with CVS and control device and comply with the associated requirements.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP >11.1psia.
945			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(1)(iii)	Ensure that the primary and secondary seals completely cover the annular space between the EFR and vessel wall in a continuous fashion.	Maintain records that demonstrate seals completely cover the annular space between the roof and vessel wall in a continuous fashion. Inspect seals at a frequency specified in the referenced citation.
946			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks 947	40 CFR 63.646(a) & 63.119(c)(1)(iv)	Ensure that the EFR is equipped with a secondary seal.	Maintain records that demonstrate the tank is equipped with a rim-mounted secondary seal.
MACT Subpart CC - Tanks 948	40 CFR 63.646(a) & 63.119(c)(3)(i-iii)	Ensure EFR is floating on liquid surface at all times except when supported by leg supports during initial fill, after emptied and degassed, and when emptied before being subsequently refilled.	Maintain records that verify that the liquid is at a level which ensures the roof is floating on the liquid surface at all times.
MACT Subpart CC - Tanks 949	40 CFR 63.646(a) & 63.119(c)(4)	Ensure that when the EFR is resting on leg supports that the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as possible.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
MACT Subpart CC - Tanks 950	40 CFR 63.646(a) & 63.120(b)(1)(ii)	Closure consists of two seals, a metallic shoe primary seal and a rim-mounted secondary seal.	Maintain records to demonstrate compliance as specified in the referenced citation.
MACT Subpart CC - Tanks 951	40 CFR 63.646(a) & 63.120(b)(1)(iii)	For EFR tanks with double seals, measure gap between the vessel wall and the secondary seal.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
MACT Subpart CC - Tanks 952	40 CFR 63.646(a) & 63.120(b)(1)(iv)	If vessel ceases to store organic HAP or TVP falls below threshold for 1 year or >, seal gap measurements shall be performed within 90 days of refilling EFR tank with HAP.	Maintain a log of tank service. Perform gap measurements within 90 days of any tank that is out-of-service for 1 year or more.
MACT Subpart CC - Tanks 953	40 CFR 63.646(a) & 63.120(b)(10)	Visually inspect the EFR, seals, and fittings each time the vessel is emptied and degassed.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of the inspection on site for at least 5 years.

Emission Source ID TK-15A2  
Source Description Storage Tank

Process Unit  
No 1 Crude Unit-03

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  954	40 CFR 63.646(a) & 63.120(b)(10)(ii-iii)	Notify Administrator in writing 30 days prior to filling or refilling each emptied/degassed EFR tank. If unplanned inspection, make notification at least 7 days prior by phone and follow-up in writing.	Maintain copies of notifications to the Administrator on site for at least 5 years from the date of the notification.
MACT Subpart CC - Tanks  955	40 CFR 63.646(a) & 63.120(b)(2)(i-iii)	Ensure that all gap measurements on the EFR are made according to the guidelines outlined in 40 CFR 63.120(b)(2)(i-iii).	Calculate gap areas using the method and guidelines in the specified citation. Retain these calculations for at least 5 years following the date of measurement.
MACT Subpart CC - Tanks  956	40 CFR 63.646(a) & 63.120(b)(3)	Ensure that the accumulated area of gaps between EFR tank wall and primary seal does not exceed 212 sq. cm/m diameter & width of any gap does not exceed 3.18 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
MACT Subpart CC - Tanks  957	40 CFR 63.646(a) & 63.120(b)(4)	Ensure that the accumulated area of gaps between EFR tank wall and secondary seal does not exceed 21.2 sq. cm/m diameter and width of any gap does not exceed 1.27 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
MACT Subpart CC - Tanks  958	40 CFR 63.646(a) & 63.120(b)(5)(i)	If metallic shoe seal is in use ensure one end of the seal extends into the stored liquid and other end extends a minimum vertical distance of 61 cm above the stored liquid surface.	Maintain records that demonstrate the mechanical shoe seal is designed to have one end extend into the stored liquid and the other end extend a minimum vertical distance of 61cm above the stored liquid surface.
MACT Subpart CC - Tanks  959	40 CFR 63.646(a) & 63.120(b)(5)(ii)&(b)(6)(i)	Ensure that there are no holes, tears, or other openings in the shoe, seal fabric, or seal envelope of the primary seal or secondary seal of the EFR.	Verify the condition of the primary and/or secondary seals during inspections. Maintain a record of the inspections.
MACT Subpart CC - Tanks  960	40 CFR 63.646(a) & 63.120(b)(6)(i)	Ensure that the secondary seal is installed above the primary seal so that it completely covers the space between the roof edge and the EFR tank wall.	Verify the condition of the primary and/or secondary seals during inspections. Maintain a record of the inspections.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  961	40 CFR 63.646(a) & 63.120(b)(7)(i-ii)	If EFR is unsafe to perform seal gap measurements, measure gaps or inspect no later than 30 day after the determination or empty tank within 45 days or request an extension.	Measure gaps within 30 days or when tank is emptied or when an extension is requested. Maintain records of these actions on site for at least 5 years.
MACT Subpart CC - Tanks  962	40 CFR 63.646(a) & 63.120(b)(8)	Within 45 days, repair conditions not meeting requirements (gap exceedances, holes in seats/fabric, seals not installed) or remove EFR tank from service or request extension.	Maintain records that demonstrate repairs are made in a timely manner and completed within 45 days, or that the tank is empty, or that an extension is requested. Maintain a record of the request on site for 5 years.
MACT Subpart CC - Tanks  963	40 CFR 63.646(a)(c)&63.120(b)(10)(i)	For existing sources, repair defects found during inspection of emptied/degassed EFR tank before refilling w/HAP. Defects include holes, tears, openings in seal fabric, or slotted membranes w/ >10% open area (after MACT compliance date).	Maintain records that demonstrate defects detected during inspections are repaired prior to refilling with a volatile organic liquid.
MACT Subpart CC - Tanks  964	40 CFR 63.646(b)(1)	Document any data, assumptions, and procedures used to group classification for storage vessels subject to this Subpart.	Maintain data, assumptions and calculations for determination of group status as long as status remains unchanged.
MACT Subpart CC - Tanks  965	40 CFR 63.646(f)(1)	Ensure that if a cover or lid is installed on an opening in a floating roof, that it remains closed except when it must be open for access.	Maintain records that demonstrate openings were designed and built with gasketed covers or lids. Perform visual inspections of the covers to ensure closure.
MACT Subpart CC - Tanks  966	40 CFR 63.646(f)(3)	Ensure that the automatic bleeder vents are closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
MACT Subpart CC - Tanks  967	40 CFR 63.654(f)(1)(i)(A-D)	Ensure that the Notification of Compliance Status report contains information specified in 40 CFR 63.654(f)(1)(i)(A-D).	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
MACT Subpart CC - Tanks  968	40 CFR 63.654(g)(3)(i)(A-D)	For seal gap measurements of EFR tanks in which the gap limits were exceeded, submit with the Periodic Report, the information specified in 40 CFR 63.654(g)(3)(i)(A-D).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.

Emission Source ID TK-15A2  
Source Description Storage Tank

Process Unit  
No 1 Crude Unit-03

CLASS 1 OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  969	40 CFR 63.654(g)(3)(ii)	If an extension was used to repair a failure or empty a tank, include in the Periodic Report the information specified in 40 CFR 63.654(g)(3)(ii).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
MACT Subpart CC - Tanks  970	40 CFR 63.654(g)(3)(iii)(B)	For inspections of emptied and degassed EFR tanks, include in the next Periodic Report the information specified in 40 CFR 63.654(g)(3)(iii)(B) of any failures detected.	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
MACT Subpart CC - Tanks  971	40 CFR 63.654(h)(2)(ii) & 63.120(b)(9)	Notify the Administrator in writing 30 days prior to gap measurements of the EFR tank.	Maintain copies of notifications to the Administrator on site for at least 5 years from the date of the notification.
MACT Subpart CC - Tanks  972	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep records as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  973	40 CFR 63.654(i)(1)(i-iii) & 63.123(b)	Maintain a record of reports submitted in accordance with 40 CFR 63.654(e) including the Notification of Compliance Status, Periodic Reports, & other reports for at least 5 yrs from the date of report.	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
MACT Subpart CC - Tanks  974	40 CFR 63.654(i)(1)(i-iii) & 63.123(d)	EFR tanks complying w/40 CFR 63.119(c), maintain records (5 yrs from measure date) describing results of ea. gap measurement including measurement date, raw data, & calculations.	Maintain records of each gap measurement on site for at least 5 years following date of measurement.
MACT Subpart CC - Tanks  975	40 CFR 63.654(i)(1)(i-iii) & 63.123(g)	If an extension is used in emptying a tank in accordance with 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8), maintain the documentation outlined in those sections.	Maintain required documentation on site for at least 5 years.



Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KAR-HC Emissions	KAR 28-19-23(A)(1)	Ensure that the tank is equipped with a floating roof such as a pontoon type, double deck type, or internal floating cover and that the liquid stored has a True Vapor Pressure (TVP) of <13.0 psia.	Maintain records that demonstrate the tank is equipped with an external floating roof and stores liquid with a TVP <13.0 psia.
976			
KAR-HC Emissions	KAR 28-19-23(A)(1)	Ensure that all tank gauging or sampling devices are gas-tight except when tank gauging or sampling is taking place.	Maintain records that demonstrate tank gauging equipment and sampling devices are designed to be gas-tight except when gauging and sampling is taking place.
977			
KAR-HC Emissions	KAR 28-19-23(A)(1)	Ensure that floating roof rests on the surface of the liquid contents and is equipped with a closure seal or seals to close the space between the roof edge and tank wall.	Maintain records that demonstrate the external floating roof closure device consists of 2 seals, a primary mechanical shoe seal or liquid mounted seal and a rim-mounted secondary seal. Maintain records that verify the liquid level ensures that the roof is floating at all times.
978			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
979			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.
980			
NSPS Subpart K	40 CFR 60.112(a)(1)	Ensure that storage vessel is equipped with a floating roof, a vapor recovery system, or their equivalents.	Maintain records that demonstrate tank is equipped with a fixed roof and internal floating roof.
981			
NSPS Subpart K	40 CFR 60.112(a)(1)	Ensure that the liquid stored has a TVP of <11.1 psia.	Maintain records to demonstrate compliance as specified in the referenced citation.
982			

Emission Source ID TK-22A1  
Source Description Storage Tank

Process Unit  
No 1 Crude Unit-03

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart K 983	40 CFR 60.112(a)(2)	Ensure that the true vapor pressure of the stored petroleum liquid is <11.1 psia or equip the vessel with a vapor recovery and disposal system or its equivalent.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP > 11.1 psia.
NSPS Subpart K 984	40 CFR 60.112(a)(2)	For storage of petroleum liquids >11.1 psia, equip the storage vessel with a vapor recovery system or its equivalent.	Maintain records that demonstrate emissions from vessel are hard piped to a closed vent system and vapor control device.
NSPS Subpart K 985	40 CFR 60.113(a) & (d)(1-2)	Maintain a record of petroleum liquid stored, period of storage, and maximum TVP of liquid during the respective storage period (unless equipped with vapor recovery/disposal system or for liquids with RVP < 1 psia).	Record and maintain on site for 5 years, information on the material stored, the period of storage, and the maximum TVP during the period of storage.
NSPS Subpart K 986	40 CFR 60.113(b)	Data on typical Reid Vapor Pressure (RVP) and stored product maximum expected storage temperature may be used to determine maximum True Vapor Pressure (TVP).	Maintain records to demonstrate compliance as specified in the referenced citation.

Emission Source ID TK-22A2  
Source Description Storage Tank

Process Unit  
No 1 Crude Unit-03

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KAR-HC Emissions  987	KAR 28-19-23(A)(1)	Ensure that floating roof rests on the surface of the liquid contents and is equipped with a closure seal or seals to close the space between the roof edge and tank wall.	Maintain records that demonstrate the external floating roof closure device consists of 2 seals, a primary mechanical shoe seal or liquid mounted seal and a rim-mounted secondary seal. Maintain records that verify the liquid level ensures that the roof is floating at all times.
KAR-HC Emissions  988	KAR 28-19-23(A)(1)	Ensure that all tank gauging or sampling devices are gas-tight except when tank gauging or sampling is taking place.	Maintain records that demonstrate tank gauging equipment and sampling devices are designed to be gas-tight except when gauging and sampling is taking place.
KAR-HC Emissions  989	KAR 28-19-23(A)(1)	Ensure that the tank is equipped with a floating roof such as a pontoon type, double deck type, or internal floating cover and that the liquid stored has a True Vapor Pressure (TVP) of <13.0 psia.	Maintain records that demonstrate the tank is equipped with an external floating roof.
MACT Subpart CC - Tanks  990	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  991	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.
NSPS Subpart K  992	40 CFR 60.112(a)(1)	Ensure that storage vessel is equipped with a floating roof, a vapor recovery system, or their equivalents.	Maintain records that demonstrate tank is equipped with a fixed roof and internal floating roof.
NSPS Subpart K  993	40 CFR 60.112(a)(1)	Ensure that the liquid stored has a TVP of <11.1 psia.	Maintain records to demonstrate compliance as specified in the referenced citation.

Emission Source ID TK-22A2  
Source Description Storage Tank

Process Unit  
No 1 Crude Unit-03

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart K 994	40 CFR 60.112(a)(2)	For storage of petroleum liquids >11.1 psia, equip the storage vessel with a vapor recovery system or its equivalent.	Maintain records that demonstrate emissions from vessel are hard piped to a closed vent system and vapor control device.
NSPS Subpart K 995	40 CFR 60.112(a)(2)	Ensure that the true vapor pressure of the stored petroleum liquid is <11.1 psia or equip the vessel with a vapor recovery and disposal system or its equivalent.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP > 11.1 psia.
NSPS Subpart K 996	40 CFR 60.113(a) & (d)(1-2)	Maintain a record of petroleum liquid stored, period of storage, and maximum TVP of liquid during the respective storage period (unless equipped with vapor recovery/disposal system or for liquids with RVP < 1 psia).	Record and maintain on site for 5 years, information on the material stored, the period of storage, and the maximum TVP during the period of storage.
NSPS Subpart K 997	40 CFR 60.113(b)	Data on typical Reid Vapor Pressure (RVP) and stored product maximum expected storage temperature may be used to determine maximum True Vapor Pressure (TVP).	Maintain records to demonstrate compliance as specified in the referenced citation.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KAR-HC Emissions	KAR 28-19-23(A)(1)	Ensure that the tank is equipped with a floating roof such as a pontoon type, double deck type, or internal floating cover and that the liquid stored has a True Vapor Pressure (TVP) of <13.0 psia.	Maintain records that demonstrate the tank is equipped with an external floating roof and stores liquid with a TVP <13.0 psia.
998			
KAR-HC Emissions	KAR 28-19-23(A)(1)	Ensure that floating roof rests on the surface of the liquid contents and is equipped with a closure seal or seals to close the space between the roof edge and tank wall.	Maintain records that demonstrate the external floating roof closure device consists of 2 seals, a primary mechanical shoe seal or liquid mounted seal and a rim-mounted secondary seal. Maintain records that verify the liquid level ensures that the roof is floating at all times.
999			
KAR-HC Emissions	KAR 28-19-23(A)(1)	Ensure that all tank gauging or sampling devices are gas-tight except when tank gauging or sampling is taking place.	Maintain records that demonstrate tank gauging equipment and sampling devices are designed to be gas-tight except when gauging and sampling is taking place.
1000			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
1001			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.
1002			
NSPS Subpart K	40 CFR 60.112(a)(1)	Ensure that storage vessel is equipped with a floating roof, a vapor recovery system, or their equivalents.	Maintain records that demonstrate tank is equipped with a fixed roof and internal floating roof.
1003			
NSPS Subpart K	40 CFR 60.112(a)(1)	Ensure that the liquid stored has a TVP of <11.1 psia.	Maintain records to demonstrate compliance as specified in the referenced citation.
1004			

Emission Source ID TK-22A3  
Source Description Storage Tank

Process Unit  
No 1 Crude Unit-03

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart K 1005	40 CFR 60.112(a)(2)	For storage of petroleum liquids >11.1 psia, equip the storage vessel with a vapor recovery system or its equivalent.	Maintain records that demonstrate emissions from vessel are hard piped to a closed vent system and vapor control device.
NSPS Subpart K 1006	40 CFR 60.112(a)(2)	Ensure that the true vapor pressure of the stored petroleum liquid is <11.1 psia or equip the vessel with a vapor recovery and disposal system or its equivalent.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP > 11.1 psia.
NSPS Subpart K 1007	40 CFR 60.113(a) & (d)(1-2)	Maintain a record of petroleum liquid stored, period of storage, and maximum TVP of liquid during the respective storage period (unless equipped with vapor recovery/disposal system or for liquids with RVP < 1 psia).	Record and maintain on site for 5 years, information on the material stored, the period of storage, and the maximum TVP during the period of storage.
NSPS Subpart K 1008	40 CFR 60.113(b)	Data on typical Reid Vapor Pressure (RVP) and stored product maximum expected storage temperature may be used to determine maximum True Vapor Pressure (TVP).	Maintain records to demonstrate compliance as specified in the referenced citation.

Emission Source ID TK-22A4  
Source Description Storage Tank

Process Unit  
No 1 Crude Unit-03

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1009	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  1010	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.

Emission Source ID TK-2501  
Source Description Storage Tank

Process Unit  
Cat Cracking-13

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1011	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  1012	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.



Emission Source ID TK-2502  
Source Description Storage Tank

Process Unit  
Cat Cracking-13

CLASS 1 OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1013	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  1014	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.

Emission Source ID TK-2503  
Source Description Storage Tank

Process Unit  
Coker-12

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1015	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  1016	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.

Emission Source ID TK-2504  
Source Description Storage Tank

Process Unit  
Coker-12

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1017	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  1018	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.

Process Unit  
Platformer Unit-10

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1019	40 CFR 63.646(a) & 63.119(a)(1)	Ensure that the tank is equipped with either a fixed roof and IFR, an EFR, an EFR converted to an IFR, CVS with control device, or equivalent system as provided in 40 CFR 63.121.	Maintain records that demonstrate tank is equipped with a fixed roof and internal floating roof.
MACT Subpart CC - Tanks  1020	40 CFR 63.646(a) & 63.119(a)(2)	Ensure that the TVP of the stored liquid remains <76.6 kPa (11.1 psia) or equip the vessel with CVS and control device and comply with the associated requirements.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP > 11.1 psia.
MACT Subpart CC - Tanks  1021	40 CFR 63.646(a) & 63.119(a)(2)	Ensure that the TVP of the stored liquid remains <76.6kPa (11.1psia) or equip the vessel with CVS and control device and comply with the associated requirements.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP > 11.1 psia.
MACT Subpart CC - Tanks  1022	40 CFR 63.646(a) & 63.119(b)(1)	Ensure that the IFR is floating on the liquid surface at all times except when it must be supported by leg supports during initial fill, after vessel has been completely emptied and degassed.	Maintain records to verify that the liquid is at a level which ensures the roof is floating on the liquid surface at all times except when supported by leg supports when emptied and degassed and during filling.
MACT Subpart CC - Tanks  1023	40 CFR 63.646(a) & 63.119(b)(2)	Ensure that when the IFR is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as possible.	Follow standard operating procedures to empty or refill the vessel as soon as possible, in a safe and effective manner.
MACT Subpart CC - Tanks  1024	40 CFR 63.646(a) & 63.119(b)(3)(i-iii)	Equip the IFR with a closure device between the vessel wall and the roof edge. Device to be a liquid-mounted seal, metallic shoe seal, or two seals one above the other forming a continuous closure.	Maintain records that demonstrate closure consists of a seal between the tank wall and cover edge.
MACT Subpart CC - Tanks  1025	40 CFR 63.646(a) & 63.119(b)(4)	Ensure that the automatic bleeder vents are closed at all times when the IFR is floating except when the roof is being floated off or is being landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
MACT Subpart CC - Tanks  1026	40 CFR 63.646(a) & 63.120(a)(2)(i)	For single-seal systems, visually inspect the IFR and seals thru manholes and roof hatches on fixed roof once every 12 months after initial fill.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.

Emission Source ID TK-2509  
Source Description Storage Tank

Process Unit  
Platformer Unit-10

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(a)(2)(ii)	For existing sources that have single-seal systems, visually inspect the IFR, and seal each time vessel is emptied and degassed and at least once every 10 years.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.
1027			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(a)(3)(i-iii)	For existing sources with double-seal systems, visually inspect IFR & seals each time tank emptied & degassed & at least once/5 yrs or inspect thru manholes once every 12 mos. and each time tank emptied & degassed at least once/10 yrs.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.
1028			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(a)(7)	Before refilling an existing IFR tank , that has been emptied and degassed, repair any defective conditions detected including holes, tears, or openings in seals or seal fabric.	Maintain records that demonstrate defects detected during inspections are repaired prior to refilling with a volatile organic liquid.
1029			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.654(g)(2)(i)(A) & 63.120(a)(4)	Within 45 days, repair defective conditions such as IFR not resting on liquid surface, liquid accumulated on roof, holes/tears in seal fabric, visible gaps or empty vessel or request 30 day extension.	Maintain records that demonstrate that defects, holes, tears, and openings, detected during inspection are repaired before filling the vessel with a volatile organic liquid.
1030			
MACT Subpart CC - Tanks	40 CFR 63.646(b)(1)	Document any data, assumptions, and procedures used to determine group classification for the storage vessels subject to this Subpart.	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.
1031			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(1)	Ensure that if a cover or lid is installed on an opening in a floating roof, that it remains closed except when it must be open for access.	Maintain records that demonstrate each opening was designed and built with gasketed covers or lids. Perform visual inspection of the cover during required annual roof seal inspections to ensure all covers and lids are closed.
1032			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(2)	Ensure that rim space vents are set to open only when the floating roof is not floating or when the pressure beneath the rim seal exceeds the manufacturer's recommended setting.	Maintain records that demonstrate the rim space vents are designed to open only when the floating roof is setting on its legs or when the pressure beneath the seal actually exceeds the manufacturer's recommended setting.
1033			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(f)(3)	Ensure that the automatic bleeder vents are closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
1034			
MACT Subpart CC - Tanks	40 CFR 63.654(f)(1)(i)(A-D)	Ensure that the Notification of Compliance Status report contains information specified in 40 CFR 63.654(f)(1)(i)(A-D) to include identification of each vessel subject to MACT, group classification, and method of compliance.	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
1035			
MACT Subpart CC - Tanks	40 CFR 63.654(f)(3)	Include in the Notification of Compliance Status report information specified in 40 CFR 654(f)(3)(i-iii) regarding monitored parameter for which a range is required to be established under 40 CFR 63.120(d).	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
1036			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(2)(i)(B)	Ensure that the Periodic Report submitted in accordance with 40 CFR 63.654(g) includes information specified in 40 CFR 63.654(g)(2)(i)(B) regarding failures found during vessel inspection.	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1037			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(2)(i)(C)	If an extension was used to repair a failure or empty an IFR tank, include in the next Periodic Report, the information specified in 40 CFR 63.654(g)(2)(i)(C).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1038			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(2)(ii)(A-B)	For IFR tanks that were emptied & degassed for which a failure (as defined in 40 CFR 654(g)(2)(ii)(A)) was detected, include the information specified in 40 CFR 654(g)(2)(ii)(B) in the next Periodic Report.	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1039			
MACT Subpart CC - Tanks	40 CFR 63.654(h)(2)(i)(A-C) & 63.120(a)(5-6)	Notify the Administrator in writing at least 30 days prior to refilling IFR tank. If unplanned, notify at least 7 days by telephone and follow-up in writing.	Maintain copies of notifications to the Administrator on site for at least 5 years from date of notification.
1040			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
1041			

Emission Source ID TK-2509  
Source Description Storage Tank

Process Unit  
Platformer Unit-10

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1042	40 CFR 63.654(i)(1)(i-iii) & 63.123(b)	Maintain a record of all reports submitted in accordance with 40 CFR 63.654(e) including the Notification of Compliance Status, Periodic Reports, and other reports for at least 5 yrs from date of report.	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
MACT Subpart CC - Tanks  1043	40 CFR 63.654(i)(1)(i-iii) & 63.123(c)	For IFR tanks complying with 40 CFR 63.119(b), maintain a record that each inspection required by 40 CFR 63.120(a) was performed for 5 yrs from date of inspection.	Maintain required documentation on site for 5 years unless otherwise specified in the referenced citation.
MACT Subpart CC - Tanks  1044	40 CFR 63.654(i)(1)(i-iii) & 63.123(g)	If an extension is used in emptying a tank in accordance with 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8), maintain the documentation outlined in 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8).	Maintain required documentation on site for at least 5 years.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1045	40 CFR 63.646(a) & 63.119(a)(1)	Ensure that the tank is equipped with either a fixed roof and IFR, an EFR, an EFR converted to an IFR, CVS with control device, or equivalent system as provided in 40 CFR 63.121.	Maintain records that demonstrate the tank is equipped with an external floating roof.
MACT Subpart CC - Tanks  1046	40 CFR 63.646(a) & 63.119(a)(2)	Ensure that the TVP of the stored liquid remains <76.6kPa (11.1psia) or equip the vessel with CVS and control device and comply with the associated requirements.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP > 11.1 psia.
MACT Subpart CC - Tanks  1047	40 CFR 63.646(a) & 63.119(c)(1)(iii)	Ensure that primary and secondary seals completely cover the annular space between the EFR and vessel wall in a continuous fashion.	Maintain records that demonstrate seals completely cover the annular space between the roof and vessel wall in a continuous fashion. Inspect seals at a frequency specified in the referenced citation.
MACT Subpart CC - Tanks  1048	40 CFR 63.646(a) & 63.119(c)(1)(i-ii)	Equip the EFR with a closure device consisting of two seals, one above the other. Primary seal shall be metallic shoe seal or liquid-mounted seal.	Maintain records that demonstrate the external floating roof is equipped with a closure consisting of two seals, a primary mechanical shoe seal or a liquid mounted seal and a rim-mounted secondary seal.
MACT Subpart CC - Tanks  1049	40 CFR 63.646(a) & 63.119(c)(1)(iv)	Ensure that the EFR is equipped with a secondary seal.	Maintain records that demonstrate the tank is equipped with a rim-mounted secondary seal.
MACT Subpart CC - Tanks  1050	40 CFR 63.646(a) & 63.119(c)(3)(i-iii)	Ensure EFR is floating on liquid surface at all times except when supported by leg supports during initial fill, after emptied and degassed, and when emptied before being subsequently refilled.	Maintain records to verify that the liquid is at a level which ensures the roof is floating on the liquid surface at all times except when supported by leg supports when emptied and degassed and during filling.
MACT Subpart CC - Tanks  1051	40 CFR 63.646(a) & 63.119(c)(4)	Ensure that when the EFR is resting on leg supports that the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as possible.	Follow standard operating procedures to empty or refill the vessel as soon as possible, in a safe and effective manner.



Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks 1052	40 CFR 63.646(a) & 63.120(b)(1)(ii)	Closure consists of two seals, a metallic shoe primary seal and a rim-mounted secondary seal.	Maintain records to demonstrate compliance as specified in the referenced citation.
MACT Subpart CC - Tanks 1053	40 CFR 63.646(a) & 63.120(b)(1)(iii)	For EFR tanks with double seals, measure the gaps between the vessel wall and secondary seal.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
MACT Subpart CC - Tanks 1054	40 CFR 63.646(a) & 63.120(b)(1)(iv)	If vessel ceases to store organic HAP or TVP falls below threshold for 1 year or >, seal gap measurements shall be performed within 90 days of refilling EFR tank with HAP.	Maintain a log of tank service. Gap measurements are performed within 90 days for any tank that is out-of-service for 1 year or more.
MACT Subpart CC - Tanks 1055	40 CFR 63.646(a) & 63.120(b)(10)	Visually inspect the EFR, seals, and fittings each time the vessel is emptied and degassed.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.
MACT Subpart CC - Tanks 1056	40 CFR 63.646(a) & 63.120(b)(10)(i)	For existing sources, repair defects found during inspection of emptied & degassed EFR tank before refilling with HAP. Defects include: holes, tears, openings in seal or seal fabric.	Maintain records that demonstrate defects detected during inspections are repaired prior to refilling with a volatile organic liquid.
MACT Subpart CC - Tanks 1057	40 CFR 63.646(a) & 63.120(b)(10)(ii-iii)	Notify Administrator in writing 30 days prior to filling or refilling each emptied/degassed EFR tank. If unplanned inspection, make notification at least 7 days prior by phone and follow-up in writing.	Maintain copies of notifications to the Administrator on site for at least 5 years from date of notification.
MACT Subpart CC - Tanks 1058	40 CFR 63.646(a) & 63.120(b)(2)(i-iii)	Ensure that all gap measurements on the EFR are made according to the guidelines outlined in 40 CFR 63.120(b)(2)(i-iii).	Calculate gap areas using the method and guidelines in the specified citation. Retain these calculations for at least 5 years following the date of measurement.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(3)	Ensure that the accumulated area of gaps between EFR tank wall and primary seal does not exceed 212 sq. cm/m diameter and width of any gap does not exceed 3.81 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
1059			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(4)	Ensure that the accumulated area of gaps between EFR tank wall and secondary seal does not exceed 21.2 sq. cm/m diameter and width of any gap does not exceed 1.27 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
1060			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(5)(i)	If metallic shoe seal is in use, ensure one end of the seal extends into the stored liquid and other end extends a minimum vertical distance of 61 cm above the stored liquid surface.	Maintain records that demonstrate the mechanical shoe seal is designed to have one end extend into the stored liquid and the other end extend a minimum vertical distance of 61 cm above the stored liquid surface.
1061			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(5)(ii) & (b)(6)(ii)	Ensure that there are no holes, tears, or other openings in the shoe, seal fabric, or seal envelope of the primary seal or secondary seal of the EFR.	Verify the condition of the primary and/or secondary seals during routine inspections. Maintain a record of the inspections.
1062			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(6)(i)	Ensure that the secondary seal is installed above the primary seal so that it completely covers the space between the roof edge and the EFR tank wall.	Verify the condition of the primary and/or secondary seals during routine inspections. Maintain a record of the inspections.
1063			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(7)(i-ii)	If unsafe to perform seal gap measurements because the EFR is structurally unsound, measure gaps or inspect no later than 30 days after determination of roof unsafe or empty tank within 45 days or request extension.	Measure gaps within 30 days (records are maintained on site for measurement) or tank is emptied. If extension is requested, a copy of the request is maintained on site for at least 5 years.
1064			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(8)	Within 45 days, repair any conditions that do not meet requirements (such as gap width/area exceedances, holes in seal/seal fabric, seals not installed as required) or remove EFR tank from service or request extension.	Maintain records to demonstrate that repairs are made in a timely manner and completed within 45 days, or that the tank is empty unless an extension is requested. Maintain a copy of the extension request on site for 5 years.
1065			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(b)(1)	Document any data, assumptions, and procedures used to determine group classification for the storage vessels subject to this Subpart.	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.
1066			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(1)	Ensure that if a cover or lid is installed on an opening in a floating roof, that it remains closed except when it must be open for access.	Maintain records that demonstrate each opening was designed and built with gasketed covers or lids. Perform visual inspection of the cover during required annual roof seal inspections to ensure all covers and lids are closed.
1067			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(3)	Ensure that the automatic bleeder vents are closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
1068			
MACT Subpart CC - Tanks	40 CFR 63.654(f)(1)(i)(A-D)	Ensure that the Notification of Compliance Status report contains information specified in 40 CFR 63.654(f)(1)(i)(A-D) to include identification of each vessel subject to MACT, group classification, and method of compliance.	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
1069			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(i)(A-D)	For the seal gap measurements of EFR tanks in which the gap limits were exceeded, submit with the Periodic Report, the information specified in 40 CFR 654(g)(3)(i)(A-D).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1070			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(ii)	If an extension was used to repair a failure or empty a tank, include in the next Periodic Report the information specified in 40 CFR 654(g)(3)(ii).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1071			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(iii)(B)	For inspections of emptied & degassed EFR tanks, include in the next Periodic Report the information specified in 40 CFR 654(g)(3)(iii)(B) of any failures detected as defined in 40 CFR 654(g)(3)(iii)(A).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1072			
MACT Subpart CC - Tanks	40 CFR 63.654(h)(2)(ii) & 63.120(b)(9)	Notify the Administrator in writing 30 days prior to gap measurements of the EFR tank.	Maintain copies of notifications to the Administrator on site for at least 5 years from date of notification.
1073			

Emission Source ID TK-2510  
Source Description Storage Tank

Process Unit  
No 1 Crude Unit-03

CLASS 1 OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1074	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  1075	40 CFR 63.654(i)(1)(i-iii) & 63.123(b)	Maintain a record of all reports submitted in accordance with 40 CFR 63.654(e) including the Notification of Compliance Status, Periodic Reports, and other reports for at least 5 yrs from date of report.	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
MACT Subpart CC - Tanks  1076	40 CFR 63.654(i)(1)(i-iii) & 63.123(d)	For EFR tanks complying with 40 CFR 63.119(c), maintain records (for at least 5 yrs from date of measurement) describing the results of each seal gap measurement made including date of measurement, raw data, and calculations.	Maintain records of each gap measurement on site for at least 5 years following date of measurement.
MACT Subpart CC - Tanks  1077	40 CFR 63.654(i)(1)(i-iii) & 63.123(g)	If an extension is used in emptying a tank in accordance with 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8), maintain the documentation outlined in 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8).	Maintain required documentation on site for 5 years unless otherwise specified in the referenced citation.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KAR-HC Emissions	KAR 28-19-23(A)(1)	Ensure that the tank is equipped with a floating roof such as a pontoon type, double deck type, or internal floating cover and that the liquid stored has a True Vapor Pressure (TVP) of <13.0 psia.	Maintain records that demonstrate the tank is equipped with a fixed roof and internal floating roof and stores liquid with a TVP of <13.0 psia.
1078			
KAR-HC Emissions	KAR 28-19-23(A)(1)	Ensure that all tank gauging or sampling devices are gas-tight except when tank gauging or sampling is taking place.	Maintain records that demonstrate tank gauging equipment and sampling devices are designed to be gas-tight except when gauging and sampling is taking place.
1079			
KAR-HC Emissions	KAR 28-19-23(A)(1)	Ensure that floating roof rests on the surface of the liquid contents and is equipped with a closure seal or seals to close the space between the roof edge and tank wall.	Maintain records that demonstrate the external floating roof closure device consists of 2 seals, a primary mechanical shoe seal or liquid mounted seal and a rim-mounted secondary seal. Maintain records that verify the liquid level ensures that the roof is floating at all times.
1080			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(a)(1)	Ensure that the tank is equipped w/either a fixed roof & IFR, an EFR, an EFR converted to an IFR, CVS w/control device, or equivalent system as provided in 40 CFR 63.121.	Maintain records that demonstrate the tank is equipped with an external floating roof.
1081			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(a)(2)	Ensure that the TVP of the stored liquid remains <76.6kPa (11.1psia) or equip the vessel w/CSV and control device and comply with the associated requirements.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP >11.1psia.
1082			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(a)(2)	Ensure that the TVP of the stored liquid remains <76.6kPa (11.1psia) or equip the vessel with CVS and control device and comply with the associated requirements.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP >11.1psia.
1083			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(b)(1)	Ensure that the IFR is resting on the liquid surface at all times except when it must be supported by leg supports during initial fill, after emptying/degassing.	Maintain records that verify that the liquid is at a level which ensures the roof is floating on the liquid surface at all times.
1084			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1085	40 CFR 63.646(a) & 63.119(b)(2)	Ensure that when the IFR is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous & accomplished as soon as possible.	Follow written step-by-step procedures to empty or rapidly refill the vessel as safely as possible.
MACT Subpart CC - Tanks  1086	40 CFR 63.646(a) & 63.119(b)(3)(i-iii)	Equip the IFR w/a closure device between the vessel wall & the roof edge. Device to be a liquid-mounted seal, metallic shoe seal, or 2 seals one above the other forming a continuous closure.	Maintain records that demonstrate closure consists of a seal between the tank wall and cover edge.
MACT Subpart CC - Tanks  1087	40 CFR 63.646(a) & 63.119(b)(4)	Ensure that the automatic bleeder vents are closed at all times when the IFR is floating except when the roof is being floated off, or landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
MACT Subpart CC - Tanks  1088	40 CFR 63.646(a) & 63.120(a)(2)(i)	For single-seal systems, visually inspect the IFR and seals thru manholes and roof hatches on fixed roof once every 12 months after initial fill.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of the inspection on site for at least 5 years.
MACT Subpart CC - Tanks  1089	40 CFR 63.646(a) & 63.120(a)(7)	Before refilling an existing IFR tank, that has been emptied and degassed, repair any defective conditions detected including holes, tears, or openings in the seal fabric.	Maintain records that demonstrate defects detected during inspections are repaired prior to refilling with a volatile organic liquid.
MACT Subpart CC - Tanks  1090	40 CFR 63.646(a) & 63.654(g)(2)(i)(A) & 63.120(a)(4)	Within 45 days, repair defects i.e. IFR not resting on liquid surface, liquid accumulated on roof, holes/tears in seal fabric, visible seal gaps or empty tank or request 30 day extension.	Maintain records to demonstrate that any defects, tears, holes and openings detected during inspection are repaired before filling vessel with volatile organic liquids within 45 days, or that the tank is empty, or that an extension is requested.
MACT Subpart CC - Tanks  1091	40 CFR 63.646(b)(1)	Document any data, assumptions, and procedures used to group classification for storage vessels subject to this Subpart.	Maintain data, assumptions and calculations for determination of group status as long as status remains unchanged.

Process Unit  
Product Loading-96

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(f)(1)	Ensure that if a cover or lid is installed on an opening in a floating roof, that it remains closed except when it must be open for access.	Maintain records that demonstrate openings were designed and built with gasketed covers or lids. Perform visual inspections of the covers to ensure closure.
1092			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(2)	Ensure that the rim-space vents are set to open when the floating roof is not floating or when the pressure beneath the rim-seal exceeds the manufacturer's recommended setting.	Maintain records that demonstrate rim-space vents are designed to open only when the floating roof is setting on its legs or when the pressure beneath the seal actually exceeds the manufacturer's recommended setting.
1093			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(3)	Ensure that the automatic bleeder vents are closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
1094			
MACT Subpart CC - Tanks	40 CFR 63.654(f)(1)(i)(A-D)	Ensure that the Notification of Compliance Status report contains information specified in 40 CFR 63.654(f)(1)(i)(A-D).	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
1095			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(2)(i)(B)	Ensure that the Periodic Report submitted in accordance with 40 CFR 63.654(g) includes info specified in 40 CFR 63.654(g)(2)(i)(B) regarding failures found during vessel inspection.	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1096			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(2)(i)(C)	If an extension was used to repair a failure or empty an IFR tank, include in the next Periodic Report, the information specified in 40 CFR 63.654(g)(2)(i)(C).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1097			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(2)(ii)(A-B)	IFR tanks that were emptied & degassed for which a failure (as defined in 40 CFR 654(g)(2)(ii)(A)) was detected, include the info specified in 40 CFR 654(g)(2)(ii)(B) in the next Periodic Report.	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1098			
MACT Subpart CC - Tanks	40 CFR 63.654(h)(2)(i)(A-C) & 63.120(a)(5-6)	Notify the Administrator in writing at least 30 days prior to refilling IFR tank. If unplanned, notify at least 7 days by phone and follow-up in writing.	Maintain copies of notifications to the Administrator on site for at least 5 years from the date of the notification.
1099			

Emission Source ID TK-2511  
Source Description Storage Tank

Process Unit  
Product Loading-96

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1100	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep records as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  1101	40 CFR 63.654(i)(1)(i-iii) & 63.123(b)	Maintain a record of reports submitted in accordance with 40 CFR 63.654(e) including the Notification of Compliance Status, Periodic Reports, & other reports for at least 5 yrs from the date of report.	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
MACT Subpart CC - Tanks  1102	40 CFR 63.654(i)(1)(i-iii) & 63.123(c)	For IFR tanks complying w/40 CFR 63.119(b), maintain a record of inspection for 5 years from date of inspection required by 40 CFR 63.120(a).	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of the inspection on site for at least 5 years.
MACT Subpart CC - Tanks  1103	40 CFR 63.654(i)(1)(i-iii) & 63.123(g)	If an extension is used in emptying a tank in accordance with 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8), maintain the documentation outlined in those sections.	Maintain required documentation on site for at least 5 years.



Emission Source ID TK-2512  
Source Description Storage Tank

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Process Unit Product Loading-96 Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KAR-HC Emissions  1104	KAR 28-19-23(A)(1)	Ensure that the tank is equipped with a floating roof such as a pontoon type, double deck type, or internal floating cover and that the liquid stored has a True Vapor Pressure (TVP) of <13.0 psia.	Maintain records that demonstrate the tank is equipped with a fixed roof and internal floating roof and stores liquid with a TVP of <13.0 psia.
KAR-HC Emissions  1105	KAR 28-19-23(A)(1)	Ensure that all tank gauging or sampling devices are gas-tight except when tank gauging or sampling is taking place.	Maintain records that demonstrate tank gauging equipment and sampling devices are designed to be gas-tight except when gauging and sampling is taking place.
KAR-HC Emissions  1106	KAR 28-19-23(A)(1)	Ensure that floating roof rests on the surface of the liquid contents and is equipped with a closure seal or seals to close the space between the roof edge and tank wall.	Maintain records that verify that the liquid is at a level which ensures the roof is floating at all times except during abnormal conditions.
MACT Subpart CC - Tanks  1107	40 CFR 63.646(a) & 63.119(a)(1)	Ensure that the tank is equipped w/either a fixed roof & IFR, an EFR, an EFR converted to an IFR, CVS w/control device, or equivalent system as provided in 40 CFR 63.121.	Maintain records that demonstrate tank is equipped with a fixed roof and internal floating roof.
MACT Subpart CC - Tanks  1108	40 CFR 63.646(a) & 63.119(a)(2)	Ensure that the TVP of the stored liquid remains <76.6kPa (11.1psia) or equip the vessel w/CVS and control device and comply with the associated requirements.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP >11.1psia.
MACT Subpart CC - Tanks  1109	40 CFR 63.646(a) & 63.119(a)(2)	Ensure that the TVP of the stored liquid remains <76.6kPa (11.1psia) or equip the vessel with CVS and control device and comply with the associated requirements.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP >11.1psia.
MACT Subpart CC - Tanks  1110	40 CFR 63.646(a) & 63.119(b)(1)	Ensure that the IFR is resting on the liquid surface at all times except when it must be supported by leg supports during initial fill, after emptying/degassing.	Maintain records that verify that the liquid is at a level which ensures the roof is floating on the liquid surface at all times.
MACT Subpart CC - Tanks  1111	40 CFR 63.646(a) & 63.119(b)(2)	Ensure that when the IFR is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous & accomplished as soon as possible.	Follow written step-by-step procedures to empty or rapidly refill the vessel as safely as possible.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1112	40 CFR 63.646(a) & 63.119(b)(3)(i-iii)	Equip the IFR w/a closure device between the vessel wall & the roof edge. Device to be a liquid-mounted seal, metallic shoe seal, or 2 seals one above the other forming a continuous closure.	Maintain records that demonstrate closure consists of a seal between the tank wall and cover edge.
MACT Subpart CC - Tanks  1113	40 CFR 63.646(a) & 63.119(b)(4)	Ensure that the automatic bleeder vents are closed at all times when the IFR is floating except when the roof is being floated off, or landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
MACT Subpart CC - Tanks  1114	40 CFR 63.646(a) & 63.120(a)(2)(i)	For single-seal systems, visually inspect the IFR and seals thru manholes and roof hatches on fixed roof once every 12 months after initial fill.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of the inspection on site for at least 5 years.
MACT Subpart CC - Tanks  1115	40 CFR 63.646(a) & 63.120(a)(7)	Before refilling an existing IFR tank, that has been emptied and degassed, repair any defective conditions detected including holes, tears, or openings in the seal fabric.	Maintain records that demonstrate defects detected during inspections are repaired prior to refilling with a volatile organic liquid.
MACT Subpart CC - Tanks  1116	40 CFR 63.646(a) & 63.654(g)(2)(i)(A) & 63.120(a)(4)	Within 45 days, repair defects i.e. IFR not resting an liquid surface, liquid accumulated on roof, holes/tears in seal fabric, visible seal gaps or empty tank or request 30 day extension.	Maintain records to demonstrate that any defects, tears, holes and openings detected during inspection are repaired before filling vessel with volatile organic liquids within 45 days, or that the tank is empty, or that an extension is requested.
MACT Subpart CC - Tanks  1117	40 CFR 63.646(b)(1)	Document any data, assumptions, and procedures used to group classification for storage vessels subject to this Subpart.	Maintain data, assumptions and calculations for determination of group status as long as status remains unchanged.
MACT Subpart CC - Tanks  1118	40 CFR 63.646(f)(1)	Ensure that if a cover or lid is installed on an opening in a floating roof, that it remains closed except when it must be open for access.	Maintain records that demonstrate openings were designed and built with gasketed covers or lids. Perform visual inspections of the covers to ensure closure.

Emission Source ID TK-2512  
Source Description Storage Tank

Process Unit  
Product Loading-96

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(f)(2)	Ensure that the rim-space vents are set to open when the floating roof is not floating or when the pressure beneath the rim-seal exceeds the manufacturer's recommended setting.	Maintain records that demonstrate rim-space vents are designed to open only when the floating roof is setting on its legs or when the pressure beneath the seal actually exceeds the manufacturer's recommended setting.
1119			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(3)	Ensure that the automatic bleeder vents are closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
1120			
MACT Subpart CC - Tanks	40 CFR 63.654(f)(1)(i)(A-D)	Ensure that the Notification of Compliance Status report contains information specified in 40 CFR 63.654(f)(1)(i)(A-D).	Maintain records that demonstrate the tank is equipped with a fixed roof and internal floating roof and stores liquid with a TVP of <13.0 psia.
1121			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(2)(i)(B)	Ensure that the Periodic Report submitted in accordance with 40 CFR 63.654(g) includes info specified in 40 CFR 63.654(g)(2)(i)(B) regarding failures found during vessel inspection.	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1122			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(2)(i)(C)	If an extension was used to repair a failure or empty an IFR tank, include in the next Periodic Report, the information specified in 40 CFR 63.654(g)(2)(i)(C).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1123			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(2)(ii)(A-B)	IFR tanks that were emptied & degassed for which a failure (as defined in 40 CFR 654(g)(2)(ii)(A)) was detected, include the info specified in 40 CFR 654(g)(2)(ii)(B) in the next Periodic Report.	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1124			
MACT Subpart CC - Tanks	40 CFR 63.654(h)(2)(i)(A-C) & 63.120(a)(5-6)	Notify the Administrator in writing at least 30 days prior to refilling IFR tank. If unplanned, notify at least 7 days by phone and follow-up in writing.	Maintain copies of notifications to the Administrator on site for at least 5 years from the date of the notification.
1125			
MACT Subpart CC - Tanks	40 CFR 63.654(j)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep records as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
1126			

Emission Source ID TK-2512  
Source Description Storage Tank

Process Unit  
Product Loading-96

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1)(i-iii) & 63.123(b)	Maintain a record of reports submitted in accordance with 40 CFR 63.654(e) including the Notification of Compliance Status, Periodic Reports, & other reports for at least 5 yrs from the date of report.	Maintain records that demonstrate the tank is equipped with a fixed roof and internal floating roof and stores liquid with a TVP of <13.0 psia.
1127			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1)(i-iii) & 63.123(c)	For IFR tanks complying w/40 CFR 63.119(b), maintain a record of inspection for 5 years from date of inspection required by 40 CFR 63.120(a).	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of the inspection on site for at least 5 years.
1128			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1)(i-iii) & 63.123(g)	If an extension is used in emptying a tank in accordance with 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8), maintain the documentation outlined in those sections.	Maintain required documentation on site for at least 5 years.
1129			

Emission Source ID TK-2513  
Source Description Storage Tank

Process Unit  
Coker-12

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KAR-HC Emissions	KAR 28-19-23(A)(1)	Ensure that floating roof rests on the surface of the liquid contents and is equipped with a closure seal or seals to close the space between the roof edge and tank wall.	Maintain records that demonstrate the external floating roof closure device consists of 2 seals, a primary mechanical shoe seal or liquid mounted seal and a rim-mounted secondary seal. Maintain records that verify the liquid level ensures that the roof is floating at all times.
1130 KAR-HC Emissions	KAR 28-19-23(A)(1)	Ensure that all tank gauging or sampling devices are gas-tight except when tank gauging or sampling is taking place.	Maintain records that demonstrate tank gauging equipment and sampling devices are designed to be gas-tight except when gauging and sampling is taking place.
1131 KAR-HC Emissions	KAR 28-19-23(A)(1)	Ensure that the tank is equipped with a floating roof such as a pontoon type, double deck type, or internal floating cover and that the liquid stored has a True Vapor Pressure (TVP) of <13.0 psia.	Maintain records that demonstrate the tank is equipped with an external floating roof and stores liquid with a TVP <13.0 psia.
1132 MACT Subpart CC - Tanks	40 CFR 63.640(n)(8)(i)	Storage vessels that are to comply with §60.112b(a)(2) of subpart Kb are exempt from the secondary seal requirements of §60.112b(a)(2)(i)(B) during the gap measurements for the primary seal required by §60.113b(b) of subpart Kb.	Seal gaps will be measured according to the technique specified in the referenced citation. Records of the measurement will be maintained according to regulation to document the event.
1133 MACT Subpart CC - Tanks	40 CFR 63.640(n)(8)(ii)	If it is unsafe to perform gap measurements because the roof appears to be structurally unsound, the owner or operator shall comply with the requirements in either §63.120(b)(7)(i) or §63.120(b)(7)(ii).	Seal gaps will be measured according to the technique specified in the referenced citation. Records of the measurement will be maintained according to regulation to document the event.
1134 MACT Subpart CC - Tanks	40 CFR 63.640(n)(8)(iii)	If a failure is detected during the inspections required by §60.113b(a)(2) or during the seal gap measurements required by §60.113b(b)(1), and the vessel cannot be repaired or emptied within 45 days, utilize upto 30 extra calendar days for repairs.	Seal gaps will be measured according to the technique specified in the referenced citation. Records of the measurement will be maintained according to regulation to document the event.
1135			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.640(n)(8)(iv)	If an extension is utilized in accordance with §63.640(n)(8)(iii), provide the information listed in §60.113b(a)(2) or §60.113b(b)(4)(iii), and describe the nature and date the vessel was emptied or repaired.	Seal gaps will be measured according to the technique specified in the referenced citation. Records of the measurement will be maintained according to regulation to document the event.
1136			
MACT Subpart CC - Tanks	40 CFR 63.640(n)(8)(vi)	Rim seal inspection reports specified in §60.115b(b)(2) are not required if none of the measured gaps or calculated gap areas exceed the limitations in §60.113b(b)(4). Documentation of the inspections shall be recorded as specified in §60.115b(b)(3).	Seal gaps will be measured according to the technique specified in the referenced citation. Records of the measurement will be maintained according to regulation to document the event.
1137			
NSPS Subpart Kb	40 CFR 60.112b(a)	Equip vessel with fixed roof and IFR, EFR, closed vent system and control device, or a system equivalent to these.	Maintain records that demonstrate the tank is equipped with an external floating roof.
1138			
NSPS Subpart Kb	40 CFR 60.112b(a)(2)	Ensure that the EFR is a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof.	Maintain records that demonstrate the external floating roof is a pontoon-type cover that is designed to rest on the surface of the liquid.
1139			
NSPS Subpart Kb	40 CFR 60.112b(a)(2)(i)(A-B)	Equip the EFR with a two seal closure device (one above the other) in which the primary seal is either a mechanical shoe seal, or a liquid-mounted seal. Ensure that the seals completely cover the annular space between edge of floating roof and tank wall.	Follow standard operating procedures to empty or refill the vessel as soon as possible, in a safe and effective manner.
1140			
NSPS Subpart Kb	40 CFR 60.112b(a)(2)(ii)	Provide a projection below the liquid surface for each opening in a non-contact EFR (except for automatic bleeder vents and rim space vents).	Maintain records that demonstrate each opening, except bleeder vents and rim space vents, in the floating roof is designed to project below the liquid surface.
1141			
NSPS Subpart Kb	40 CFR 60.112b(a)(2)(ii)	Equip each opening in an EFR with a gasketed cover, seal, or lid that is to be maintained in a closed position at all times except when device is in actual use (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves).	Maintain records that demonstrate each opening was designed and built with gasketed covers or lids. Perform visual inspection of the cover during required annual roof seal inspections to ensure all covers and lids are closed.
1142			

Emission Source ID TK-2513  
Source Description Storage Tank

Process Unit  
Coker-12

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart Kb  1143	40 CFR 60.112b(a)(2)(ii)	Ensure that automatic bleeder vents are closed at all times when the EFR is floating except when the roof is being floated off or being landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
NSPS Subpart Kb  1144	40 CFR 60.112b(a)(2)(ii)	Automatic bleeder vents and rim space vents on the EFR are to be gasketed.	Maintain records that demonstrate automatic bleeder vents and rim space vents are gasketed.
NSPS Subpart Kb  1145	40 CFR 60.112b(a)(2)(ii)	Provide each emergency roof drain in the EFR with a slotted membrane fabric cover that covers at least 90% of the area of the opening.	Maintain records that demonstrate the roof drain is equipped with a slotted membrane fabric that covers at least 90% of the open area.
NSPS Subpart Kb  1146	40 CFR 60.112b(a)(2)(iii)	Ensure that the EFR is floating on the liquid at all times except during initial fill until the roof is lifted off the leg supports and when the tank is completely emptied and subsequently refilled.	Maintain records to verify that the liquid is at a level which ensures the roof is floating on the liquid surface at all times except when supported by leg supports when emptied and degassed and during filling.
NSPS Subpart Kb  1147	40 CFR 60.112b(a)(2)(iii)	Ensure that the process of filling, emptying, or refilling when the EFR is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible.	Follow standard operating procedures to empty or refill the vessel as soon as possible, in a safe and effective manner.
NSPS Subpart Kb  1148	40 CFR 60.112b(b)	Ensure that the TVP of the tank contents is <11.1 psia or equip the vessel with a vapor recovery and disposal system to comply with all the requirements accordingly.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP > 11.1 psia.
NSPS Subpart Kb  1149	40 CFR 60.113b(b)(1)(i)	Measure gaps between tank wall and primary seal during hydrostatic testing of the EFR vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Measure according to 40 CFR 60.113b(b)(2-3).	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.
NSPS Subpart Kb  1150	40 CFR 60.113b(b)(1)(ii)	Measure gaps between tank wall and secondary seal within 60 days of initial fill with VOL of the EFR tank and at least once per year thereafter. Measure according to 40 CFR 60.113b(b)(2-3).	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart Kb	40 CFR 60.113b(b)(1)(iii)	Ensure that if EFR tank ceases to store VOL for a period of 1 year or more, subsequent filling of VOL into vessel is treated as an initial fill. Make measurements according to method outlined in 40 CFR 60.113b(b)(2-3).	Maintain a log of tank service. Any tank that is out-of-service for 1 year or more is treated as an initial fill upon refill with an organic liquid.
1151			
NSPS Subpart Kb	40 CFR 60.113b(b)(4) & (b)(4)(iii)	If the accumulated area of gaps or gap widths are exceeded, or mechanical shoe does not extend into or above the liquid surface as required, within 45 days make necessary repairs or empty EFR vessel or request 30 day extension from Administrator.	Maintain copies of reports on site for at least 5 years from date of report.
1152			
NSPS Subpart Kb	40 CFR 60.113b(b)(4)(i)	Ensure that the accumulated area of gaps between EFR tank wall and mechanical shoe seal or liquid-mounted primary seal does not exceed 212 sq. cm/m diameter and width of any portion of gap does not exceed 3.81 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
1153			
NSPS Subpart Kb	40 CFR 60.113b(b)(4)(i)(A)	Ensure that one end of the mechanical shoe on the EFR extends into the stored liquid, and the other end extends a minimum vertical distance of 61 cm above stored liquid surface.	Maintain records that demonstrate the mechanical shoe seal is designed to have one end extend into the stored liquid and the other end extend a minimum vertical distance of 61 cm above the stored liquid surface.
1154			
NSPS Subpart Kb	40 CFR 60.113b(b)(4)(i)(B)	Ensure that there are no holes, tears, or other openings in the shoe, seal fabric, or seal envelope of the primary seal on the EFR.	Verify the condition of the primary and/or secondary seals during routine inspections. Maintain a record of the inspections.
1155			
NSPS Subpart Kb	40 CFR 60.113b(b)(4)(ii)(A)	Ensure that the secondary seal is installed above the primary seal so that it completely covers the space between the roof edge and the tank wall.	Verify the condition of the primary and/or secondary seals during routine inspections. Maintain a record of the inspections.
1156			
NSPS Subpart Kb	40 CFR 60.113b(b)(4)(ii)(B)	Ensure that the accumulated area of gaps between the EFR tank wall and the secondary seal does not exceed 21.2 sq. cm/m diameter and width of any portion of gap does not exceed 1.27 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
1157			



Emission Source ID TK-2513  
Source Description Storage Tank

Process Unit  
Coker-12

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart Kb  1158	40 CFR 60.113b(b)(4)(ii)(C)	Ensure that there are no holes, tears, or other openings in the shoe, seal fabric, or seal envelope of the secondary seal on the EFR.	Verify the condition of the primary and/or secondary seals during routine inspections. Maintain a record of the inspections.
NSPS Subpart Kb  1159	40 CFR 60.113b(b)(5)	Notify the Administrator in writing 30 days prior to gap measurements on the EFR tank.	Maintain copies of notifications to the Administrator on site for at least 5 years from date of notification.
NSPS Subpart Kb  1160	40 CFR 60.113b(b)(6)	Visually inspect the EFR, primary seal, secondary seal, and fittings each time the vessel is emptied and degassed.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.
NSPS Subpart Kb  1161	40 CFR 60.113b(b)(6)(i)	If defects including seals with holes, tears, or other openings, are detected during inspection of an emptied & degassed EFR tank, repair the items as necessary before filling or refilling vessel with VOL.	Maintain records that demonstrate defects detected during inspections are repaired prior to refilling with a volatile organic liquid.
NSPS Subpart Kb  1162	40 CFR 60.113b(b)(6)(ii)	For all inspections where EFR tank was emptied & degassed, notify the Administrator in writing 30 days prior to refilling. If inspection was unplanned, notify the Administrator at least 7 days prior by telephone and follow-up in writing.	Maintain copies of notifications to the Administrator on site for at least 5 years from date of notification.
NSPS Subpart Kb  1163	40 CFR 60.115b(b)(1)	Submit a report to the Administrator that describes the control equipment (i.e. EFR) and certifies that the control equipment meets the specifications of this regulation. Attach report with notification required in 40 CFR 60.7(a)(3).	Maintain copies of reports on site for at least 5 years from date of report.
NSPS Subpart Kb  1164	40 CFR 60.115b(b)(2)	Submit report to Administrator within 60 days of seal gap measurements on the EFR tank. Report should contain date of measurement, raw data, and calculations.	Maintain copies of reports on site for at least 5 years from date of report.
NSPS Subpart Kb  1165	40 CFR 60.115b(b)(3)	Maintain a record for at least 5 years of each gap measurement performed as required on the EFR tank. Record shall identify vessel measured, date of measurement, raw data, and calculations.	Maintain records of inspections and other data on site for at least 5 years.

Emission Source ID TK-2513  
Source Description Storage Tank

Process Unit  
Coker-12

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart Kb  1166	40 CFR 60.115b(b)(4)	If gaps in exceedance of the limitation are detected on the EFR, submit a report to the Administrator within 30 days of the inspection. Identify the vessel, date of measurement, raw data, calculations, and date vessel was emptied or repaired.	Maintain copies of reports on site for at least 5 years from date of report.
NSPS Subpart Kb  1167	40 CFR 60.116b(b)	Keep readily accessible records for the life of the source showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel (unless the vessel has design capacity <75 cu. m).	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
NSPS Subpart Kb  1168	40 CFR 60.116b(c)	Maintain a record for at least 5 years of the VOL stored, the period of storage, and the max TVP of that VOL during the respective storage period.	Maintain records of inspections and other data on site for at least 5 years.

Process Unit  
Product Loading-96

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1169	40 CFR 63.646(a) & 63.119(a)(1)	Ensure that the tank is equipped with either a fixed roof and IFR, an EFR, an EFR converted to an IFR, CVS with control device, or equivalent system as provided in 40 CFR 63.121.	Maintain records that demonstrate the tank is equipped with an external floating roof.
MACT Subpart CC - Tanks  1170	40 CFR 63.646(a) & 63.119(a)(2)	Ensure that the TVP of the stored liquid remains <76.6kPa (11.1psia) or equip the vessel with CVS and control device and comply with the associated requirements.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP > 11.1 psia.
MACT Subpart CC - Tanks  1171	40 CFR 63.646(a) & 63.119(c)(1)(iii)	Ensure that primary and secondary seals completely cover the annular space between the EFR and vessel wall in a continuous fashion.	Maintain records that demonstrate seals completely cover the annular space between the roof and vessel wall in a continuous fashion. Inspect seals at a frequency specified in the referenced citation.
MACT Subpart CC - Tanks  1172	40 CFR 63.646(a) & 63.119(c)(1)(i-ii)	Equip the EFR with a closure device consisting of two seals, one above the other. Primary seal shall be metallic shoe seal or liquid-mounted seal.	Maintain records that demonstrate the external floating roof is equipped with a closure consisting of two seals, a primary mechanical shoe seal or a liquid mounted seal and a rim-mounted secondary seal.
MACT Subpart CC - Tanks  1173	40 CFR 63.646(a) & 63.119(c)(1)(iv)	Ensure that the EFR is equipped with a secondary seal.	Maintain records that demonstrate the tank is equipped with a rim-mounted secondary seal.
MACT Subpart CC - Tanks  1174	40 CFR 63.646(a) & 63.119(c)(3)(i-iii)	Ensure EFR is floating on liquid surface at all times except when supported by leg supports during initial fill, after emptied and degassed, and when emptied before being subsequently refilled.	Maintain records to verify that the liquid is at a level which ensures the roof is floating on the liquid surface at all times except when supported by leg supports when emptied and degassed and during filling.
MACT Subpart CC - Tanks  1175	40 CFR 63.646(a) & 63.119(c)(4)	Ensure that when the EFR is resting on leg supports that the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as possible.	Follow standard operating procedures to empty or refill the vessel as soon as possible, in a safe and effective manner.

Emission Source ID TK-3003  
Source Description Storage Tank

Process Unit  
Product Loading-96

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks 1176	40 CFR 63.646(a) & 63.120(b)(1)(ii)	Closure consists of two seals, a metallic shoe primary seal and a rim-mounted secondary seal.	Maintain records to demonstrate compliance as specified in the referenced citation.
MACT Subpart CC - Tanks 1177	40 CFR 63.646(a) & 63.120(b)(1)(iii)	For EFR tanks with double seals, measure the gaps between the vessel wall and secondary seal.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
MACT Subpart CC - Tanks 1178	40 CFR 63.646(a) & 63.120(b)(1)(iv)	If vessel ceases to store organic HAP or TVP falls below threshold for 1 year or >, seal gap measurements shall be performed within 90 days of refilling EFR tank with HAP.	Maintain a log of tank service. Gap measurements are performed within 90 days for any tank that is out-of-service for 1 year or more.
MACT Subpart CC - Tanks 1179	40 CFR 63.646(a) & 63.120(b)(10)	Visually inspect the EFR, seals, and fittings each time the vessel is emptied and degassed.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.
MACT Subpart CC - Tanks 1180	40 CFR 63.646(a) & 63.120(b)(10)(i)	For existing sources, repair defects found during inspection of emptied & degassed EFR tank before refilling with HAP. Defects include: holes, tears, openings in seal or seal fabric.	Maintain records that demonstrate defects detected during inspections are repaired prior to refilling with a volatile organic liquid.
MACT Subpart CC - Tanks 1181	40 CFR 63.646(a) & 63.120(b)(10)(ii-iii)	Notify Administrator in writing 30 days prior to filling or refilling each emptied/degassed EFR tank. If unplanned inspection, make notification at least 7 days prior by phone and follow-up in writing.	Maintain copies of notifications to the Administrator on site for at least 5 years from date of notification.
MACT Subpart CC - Tanks 1182	40 CFR 63.646(a) & 63.120(b)(2)(i-iii)	Ensure that all gap measurements on the EFR are made according to the guidelines outlined in 40 CFR 63.120(b)(2)(i-iii).	Calculate gap areas using the method and guidelines in the specified citation. Retain these calculations for at least 5 years following the date of measurement.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(3)	Ensure that the accumulated area of gaps between EFR tank wall and primary seal does not exceed 212 sq. cm/m diameter and width of any gap does not exceed 3.81 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
1183			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(4)	Ensure that the accumulated area of gaps between EFR tank wall and secondary seal does not exceed 21.2 sq. cm/m diameter and width of any gap does not exceed 1.27 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
1184			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(5)(i)	If metallic shoe seal is in use, ensure one end of the seal extends into the stored liquid and other end extends a minimum vertical distance of 61 cm above the stored liquid surface.	Maintain records that demonstrate the mechanical shoe seal is designed to have one end extend into the stored liquid and the other end extend a minimum vertical distance of 61 cm above the stored liquid surface.
1185			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(5)(ii) & (b)(6)(ii)	Ensure that there are no holes, tears, or other openings in the shoe, seal fabric, or seal envelope of the primary seal or secondary seal of the EFR.	Verify the condition of the primary and/or secondary seals during routine inspections. Maintain a record of the inspections.
1186			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(6)(i)	Ensure that the secondary seal is installed above the primary seal so that it completely covers the space between the roof edge and the EFR tank wall.	Verify the condition of the primary and/or secondary seals during routine inspections. Maintain a record of the inspections.
1187			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(7)(i-ii)	If unsafe to perform seal gap measurements because the EFR is structurally unsound, measure gaps or inspect no later than 30 days after determination of roof unsafe or empty tank within 45 days or request extension.	Measure gaps within 30 days (records are maintained on site for measurement) or tank is emptied. If extension is requested, a copy of the request is maintained on site for at least 5 years.
1188			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(8)	Within 45 days, repair any conditions that do not meet requirements (such as gap width/area exceedances, holes in seal/seal fabric, seals not installed as required) or remove EFR tank from service or request extension.	Maintain records to demonstrate that repairs are made in a timely manner and completed within 45 days, or that the tank is empty unless an extension is requested. Maintain a copy of the extension request on site for 5 years.
1189			

Process Unit  
Product Loading-96

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(b)(1)	Document any data, assumptions, and procedures used to determine group classification for the storage vessels subject to this Subpart.	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.
1190			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(1)	Ensure that if a cover or lid is installed on an opening in a floating roof, that it remains closed except when it must be open for access.	Maintain records that demonstrate each opening was designed and built with gasketed covers or lids. Perform visual inspection of the cover during required annual roof seal inspections to ensure all covers and lids are closed.
1191			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(3)	Ensure that the automatic bleeder vents are closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
1192			
MACT Subpart CC - Tanks	40 CFR 63.654(f)(1)(i)(A-D)	Ensure that the Notification of Compliance Status report contains information specified in 40 CFR 63.654(f)(1)(i)(A-D) to include identification of each vessel subject to MACT, group classification, and method of compliance.	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
1193			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(i)(A-D)	For the seal gap measurements of EFR tanks in which the gap limits were exceeded, submit with the Periodic Report, the information specified in 40 CFR 654(g)(3)(i)(A-D).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1194			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(ii)	If an extension was used to repair a failure or empty a tank, include in the next Periodic Report the information specified in 40 CFR 654(g)(3)(ii).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1195			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(iii)(B)	For inspections of emptied & degassed EFR tanks, include in the next Periodic Report the information specified in 40 CFR 654(g)(3)(iii)(B) of any failures detected as defined in 40 CFR 654(g)(3)(iii)(A).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1196			
MACT Subpart CC - Tanks	40 CFR 63.654(h)(2)(ii) & 63.120(b)(9)	Notify the Administrator in writing 30 days prior to gap measurements of the EFR tank.	Maintain copies of notifications to the Administrator on site for at least 5 years from date of notification.
1197			

Emission Source ID TK-3003  
Source Description Storage Tank

Process Unit  
Product Loading-96

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
1198			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1)(i-iii) & 63.123(b)	Maintain a record of all reports submitted in accordance with 40 CFR 63.654(e) including the Notification of Compliance Status, Periodic Reports, and other reports for at least 5 yrs from date of report.	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
1199			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1)(i-iii) & 63.123(d)	For EFR tanks complying with 40 CFR 63.119(c), maintain records (for at least 5 yrs from date of measurement) describing the results of each seal gap measurement made including date of measurement, raw data, and calculations.	Maintain records of each gap measurement on site for at least 5 years following date of measurement.
1200			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1)(i-iii) & 63.123(g)	If an extension is used in emptying a tank in accordance with 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8), maintain the documentation outlined in 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8).	Maintain required documentation on site for 5 years unless otherwise specified in the referenced citation.
1201			

Emission Source ID TK-3501  
Source Description Storage Tank

Process Unit  
No 1 Crude Unit-03

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KAR-HC Emissions	KAR 28-19-23(A)(1)	Ensure that the tank is equipped with a floating roof such as a pontoon type, double deck type, or internal floating cover and that the liquid stored has a True Vapor Pressure (TVP) of <13.0 psia.	Maintain records that demonstrate the tank is equipped with an external floating roof and stores liquid with a TVP <13.0 psia.
1202 KAR-HC Emissions	KAR 28-19-23(A)(1)	Ensure that floating roof rests on the surface of the liquid contents and is equipped with a closure seal or seals to close the space between the roof edge and tank wall.	Maintain records that demonstrate the external floating roof closure device consists of 2 seals, a primary mechanical shoe seal or liquid mounted seal and a rim-mounted secondary seal. Maintain records that verify the liquid level ensures that the roof is floating at all times.
1203 KAR-HC Emissions	KAR 28-19-23(A)(1)	Ensure that all tank gauging or sampling devices are gas-tight except when tank gauging or sampling is taking place.	Maintain records that demonstrate tank gauging equipment and sampling devices are designed to be gas-tight except when gauging and sampling is taking place.
1204 MACT Subpart CC - Tanks	40 CFR 63.640(n)(8)(i)	Storage vessels that are to comply with §60.112b(a)(2) of subpart Kb are exempt from the secondary seal requirements of §60.112b(a)(2)(i)(B) during the gap measurements for the primary seal required by §60.113b(b) of subpart Kb.	Seal gaps will be measured according to the technique specified in the referenced citation. Records of the measurement will be maintained according to regulation to document the event.
1205 MACT Subpart CC - Tanks	40 CFR 63.640(n)(8)(ii)	If it is unsafe to perform gap measurements because the roof appears to be structurally unsound, the owner or operator shall comply with the requirements in either §63.120(b)(7)(i) or §63.120(b)(7)(ii).	Seal gaps will be measured according to the technique specified in the referenced citation. Records of the measurement will be maintained according to regulation to document the event.
1206 MACT Subpart CC - Tanks	40 CFR 63.640(n)(8)(iii)	If a failure is detected during the inspections required by §60.113b(a)(2) or during the seal gap measurements required by §60.113b(b)(1), and the vessel cannot be repaired or emptied within 45 days, utilize upto 30 extra calendar days for repairs.	Seal gaps will be measured according to the technique specified in the referenced citation. Records of the measurement will be maintained according to regulation to document the event.
1207			



Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.640(n)(8)(iv)	If an extension is utilized in accordance with §63.640(n)(8)(iii), provide the information listed in §60.113b(a)(2) or §60.113b(b)(4)(iii), and describe the nature and date the vessel was emptied or repaired.	Seal gaps will be measured according to the technique specified in the referenced citation. Records of the measurement will be maintained according to regulation to document the event.
1208			
MACT Subpart CC - Tanks	40 CFR 63.640(n)(8)(vi)	Rim seal inspection reports specified in §60.115b(b)(2) are not required if none of the measured gaps or calculated gap areas exceed the limitations in §60.113b(b)(4). Documentation of the inspections shall be recorded as specified in §60.115b(b)(3).	Seal gaps will be measured according to the technique specified in the referenced citation. Records of the measurement will be maintained according to regulation to document the event.
1209			
NSPS Subpart Kb	40 CFR 60.112b(a)	Equip vessel with fixed roof and IFR, EFR, closed vent system and control device, or a system equivalent to these.	Maintain records that demonstrate the tank is equipped with an external floating roof.
1210			
NSPS Subpart Kb	40 CFR 60.112b(a)(2)	Ensure that the EFR is a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof.	Maintain records that demonstrate the external floating roof is a pontoon-type cover that is designed to rest on the surface of the liquid.
1211			
NSPS Subpart Kb	40 CFR 60.112b(a)(2)(i)(A-B)	Equip the EFR with a two seal closure device (one above the other) in which the primary seal is either a mechanical shoe seal, or a liquid-mounted seal. Ensure that the seals completely cover the annular space between edge of floating roof and tank wall.	Maintain records that demonstrate closure consists of two seals, a primary mechanical shoe seal and secondary wiper seals designed to cover the annular space between the tank wall and the edge of the floating roof.
1212			
NSPS Subpart Kb	40 CFR 60.112b(a)(2)(ii)	Provide each emergency roof drain in the EFR with a slotted membrane fabric cover that covers at least 90% of the area of the opening.	Maintain records that demonstrate the roof drain is equipped with a slotted membrane fabric that covers at least 90% of the open area.
1213			
NSPS Subpart Kb	40 CFR 60.112b(a)(2)(ii)	Provide a projection below the liquid surface for each opening in a non-contact EFR (except for automatic bleeder vents and rim space vents).	Maintain records that demonstrate each opening, except bleeder vents and rim space vents, in the floating roof is designed to project below the liquid surface.
1214			

Emission Source ID TK-3501  
Source Description Storage Tank

Process Unit  
No 1 Crude Unit-03

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart Kb	40 CFR 60.112b(a)(2)(ii)	Equip each opening in an EFR with a gasketed cover, seat, or lid that is to be maintained in a closed position at all times except when device is in actual use (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves).	Maintain records that demonstrate each opening was designed and built with gasketed covers or lids. Perform visual inspection of the cover during required annual roof seal inspections to ensure all covers and lids are closed.
1215			
NSPS Subpart Kb	40 CFR 60.112b(a)(2)(ii)	Ensure that automatic bleeder vents are closed at all times when the EFR is floating except when the roof is being floated off or being landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
1216			
NSPS Subpart Kb	40 CFR 60.112b(a)(2)(ii)	Automatic bleeder vents and rim space vents on the EFR are to be gasketed.	Maintain records that demonstrate automatic bleeder vents and rim space vents are gasketed.
1217			
NSPS Subpart Kb	40 CFR 60.112b(a)(2)(iii)	Ensure that the EFR is floating on the liquid at all times except during initial fill until the roof is lifted off the leg supports and when the tank is completely emptied and subsequently refilled.	Maintain records to verify that the liquid is at a level which ensures the roof is floating on the liquid surface at all times except when supported by leg supports when emptied and degassed and during filling.
1218			
NSPS Subpart Kb	40 CFR 60.112b(a)(2)(iii)	Ensure that the process of filling, emptying, or refilling when the EFR is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible.	Follow standard operating procedures to empty or refill the vessel as soon as possible, in a safe and effective manner.
1219			
NSPS Subpart Kb	40 CFR 60.112b(b)	Ensure that the TVP of the tank contents is <11.1 psia or equip the vessel with a vapor recovery and disposal system to comply with all the requirements accordingly.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP > 11.1 psia.
1220			
NSPS Subpart Kb	40 CFR 60.113b(b)(1)(i)	Measure gaps between tank wall and primary seal during hydrostatic testing of the EFR vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Measure according to 40 CFR 60.113b(b)(2-3).	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.
1221			

Emission Source ID TK-3501  
Source Description Storage Tank

CLASS I OPERATING PERMIT

Source ID No.: 1250003

ATTACHMENT D

Process Unit  
No 1 Crude Unit-03

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart Kb	40 CFR 60.113b(b)(1)(ii)	Measure gaps between tank wall and secondary seal within 60 days of initial fill with VOL of the EFR tank and at least once per year thereafter. Measure according to 40 CFR 60.113b(b)(2-3).	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.
1222			
NSPS Subpart Kb	40 CFR 60.113b(b)(1)(iii)	Ensure that if EFR tank ceases to store VOL for a period of 1 year or more, subsequent filling of VOL into vessel is treated as an initial fill. Make measurements according to method outlined in 40 CFR 60.113b(b)(2-3).	Maintain a log of tank service. Any tank that is out-of-service for 1 year or more is treated as an initial fill upon refill with an organic liquid.
1223			
NSPS Subpart Kb	40 CFR 60.113b(b)(4) & (b)(4)(iii)	If the accumulated area of gaps or gap widths are exceeded, or mechanical shoe does not extend into or above the liquid surface as required, within 45 days make necessary repairs or empty EFR vessel or request 30 day extension from Administrator.	Maintain copies of reports on site for at least 5 years from date of report.
1224			
NSPS Subpart Kb	40 CFR 60.113b(b)(4)(i)	Ensure that the accumulated area of gaps between EFR tank wall and mechanical shoe seal or liquid-mounted primary seal does not exceed 212 sq. cm/m diameter and width of any portion of gap does not exceed 3.81 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
1225			
NSPS Subpart Kb	40 CFR 60.113b(b)(4)(i)(A)	Ensure that one end of the mechanical shoe on the EFR extends into the stored liquid, and the other end extends a minimum vertical distance of 61 cm above stored liquid surface.	Maintain records that demonstrate the mechanical shoe seal is designed to have one end extend into the stored liquid and the other end extend a minimum vertical distance of 61 cm above the stored liquid surface.
1226			
NSPS Subpart Kb	40 CFR 60.113b(b)(4)(i)(B)	Ensure that there are no holes, tears, or other openings in the shoe, seal fabric, or seal envelope of the primary seal on the EFR.	Verify the condition of the primary and/or secondary seals during routine inspections. Maintain a record of the inspections.
1227			
NSPS Subpart Kb	40 CFR 60.113b(b)(4)(ii)(A)	Ensure that the secondary seal is installed above the primary seal so that it completely covers the space between the roof edge and the tank wall.	Verify the condition of the primary and/or secondary seals during routine inspections. Maintain a record of the inspections.
1228			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart Kb  1229	40 CFR 60.113b(b)(4)(ii)(B)	Ensure that the accumulated area of gaps between the EFR tank wall and the secondary seal does not exceed 21.2 sq. cm/m diameter and width of any portion of gap does not exceed 1.27 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
NSPS Subpart Kb  1230	40 CFR 60.113b(b)(4)(ii)(C)	Ensure that there are no holes, tears, or other openings in the shoe, seal fabric, or seal envelope of the secondary seal on the EFR.	Verify the condition of the primary and/or secondary seals during routine inspections. Maintain a record of the inspections.
NSPS Subpart Kb  1231	40 CFR 60.113b(b)(5)	Notify the Administrator in writing 30 days prior to gap measurements on the EFR tank.	Maintain copies of notifications to the Administrator on site for at least 5 years from date of notification.
NSPS Subpart Kb  1232	40 CFR 60.113b(b)(6)	Visually inspect the EFR, primary seal, secondary seal, and fittings each time the vessel is emptied and degassed.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.
NSPS Subpart Kb  1233	40 CFR 60.113b(b)(6)(i)	If defects including seals with holes, tears, or other openings, are detected during inspection of an emptied & degassed EFR tank, repair the items as necessary before filling or refilling vessel with VOL.	Maintain records that demonstrate defects detected during inspections are repaired prior to refilling with a volatile organic liquid.
NSPS Subpart Kb  1234	40 CFR 60.113b(b)(6)(ii)	For all inspections where EFR tank was emptied & degassed, notify the Administrator in writing 30 days prior to refilling. If inspection was unplanned, notify the Administrator at least 7 days prior by telephone and follow-up in writing.	Maintain copies of notifications to the Administrator on site for at least 5 years from date of notification.
NSPS Subpart Kb  1235	40 CFR 60.115b(b)(1)	Submit a report to the Administrator that describes the control equipment (i.e. EFR) and certifies that the control equipment meets the specifications of this regulation. Attach report with notification required in 40 CFR 60.7(a)(3).	Maintain copies of reports on site for at least 5 years from date of report.
NSPS Subpart Kb  1236	40 CFR 60.115b(b)(2)	Submit report to Administrator within 60 days of seal gap measurements on the EFR tank. Report should contain date of measurement, raw data, and calculations.	Maintain copies of reports on site for at least 5 years from date of report.

Emission Source ID TK-3501  
Source Description Storage Tank

Process Unit  
No 1 Crude Unit-03

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart Kb  1237	40 CFR 60.115b(b)(3)	Maintain a record for at least 5 years of each gap measurement performed as required on the EFR tank. Record shall identify vessel measured, date of measurement, raw data, and calculations.	Maintain records of inspections and other data on site for at least 5 years.
NSPS Subpart Kb  1238	40 CFR 60.115b(b)(4)	If gaps in exceedance of the limitation are detected on the EFR, submit a report to the Administrator within 30 days of the inspection. Identify the vessel, date of measurement, raw data, calculations, and date vessel was emptied or repaired.	Maintain copies of reports on site for at least 5 years from date of report.
NSPS Subpart Kb  1239	40 CFR 60.116b(b)	Keep readily accessible records for the life of the source showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel (unless the vessel has design capacity <75 cu. m).	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
NSPS Subpart Kb  1240	40 CFR 60.116b(c)	Maintain a record for at least 5 years of the VOL stored, the period of storage, and the max TVP of that VOL during the respective storage period.	Maintain records of inspections and other data on site for at least 5 years.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart Kb  1222	40 CFR 60.113b(b)(1)(ii)	Measure gaps between tank wall and secondary seal within 60 days of initial fill with VOL of the EFR tank and at least once per year thereafter. Measure according to 40 CFR 60.113b(b)(2-3).	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.
NSPS Subpart Kb  1223	40 CFR 60.113b(b)(1)(iii)	Ensure that if EFR tank ceases to store VOL for a period of 1 year or more, subsequent filling of VOL into vessel is treated as an initial fill. Make measurements according to method outlined in 40 CFR 60.113b(b)(2-3).	Maintain a log of tank service. Any tank that is out-of-service for 1 year or more is treated as an initial fill upon refill with an organic liquid.
NSPS Subpart Kb  1224	40 CFR 60.113b(b)(4) & (b)(4)(iii)	If the accumulated area of gaps or gap widths are exceeded, or mechanical shoe does not extend into or above the liquid surface as required, within 45 days make necessary repairs or empty EFR vessel or request 30 day extension from Administrator.	Maintain copies of reports on site for at least 5 years from date of report.
NSPS Subpart Kb  1225	40 CFR 60.113b(b)(4)(i)	Ensure that the accumulated area of gaps between EFR tank wall and mechanical shoe seal or liquid-mounted primary seal does not exceed 212 sq. cm/m diameter and width of any portion of gap does not exceed 3.81 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
NSPS Subpart Kb  1226	40 CFR 60.113b(b)(4)(i)(A)	Ensure that one end of the mechanical shoe on the EFR extends into the stored liquid, and the other end extends a minimum vertical distance of 61 cm above stored liquid surface.	Maintain records that demonstrate the mechanical shoe seal is designed to have one end extend into the stored liquid and the other end extend a minimum vertical distance of 61 cm above the stored liquid surface.
NSPS Subpart Kb  1227	40 CFR 60.113b(b)(4)(i)(B)	Ensure that there are no holes, tears, or other openings in the shoe, seal fabric, or seal envelope of the primary seal on the EFR.	Verify the condition of the primary and/or secondary seals during routine inspections. Maintain a record of the inspections.
NSPS Subpart Kb  1228	40 CFR 60.113b(b)(4)(ii)(A)	Ensure that the secondary seal is installed above the primary seal so that it completely covers the space between the roof edge and the tank wall.	Verify the condition of the primary and/or secondary seals during routine inspections. Maintain a record of the inspections.

Emission Source ID TK-3501  
Source Description Storage Tank

Process Unit  
No 1 Crude Unit-03

CLASS 1 OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart Kb  1229	40 CFR 60.113b(b)(4)(ii)(B)	Ensure that the accumulated area of gaps between the EFR tank wall and the secondary seal does not exceed 21.2 sq. cm/m diameter and width of any portion of gap does not exceed 1.27 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
NSPS Subpart Kb  1230	40 CFR 60.113b(b)(4)(ii)(C)	Ensure that there are no holes, tears, or other openings in the shoe, seal fabric, or seal envelope of the secondary seal on the EFR.	Verify the condition of the primary and/or secondary seals during routine inspections. Maintain a record of the inspections.
NSPS Subpart Kb  1231	40 CFR 60.113b(b)(5)	Notify the Administrator in writing 30 days prior to gap measurements on the EFR tank.	Maintain copies of notifications to the Administrator on site for at least 5 years from date of notification.
NSPS Subpart Kb  1232	40 CFR 60.113b(b)(6)	Visually inspect the EFR, primary seal, secondary seal, and fittings each time the vessel is emptied and degassed.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.
NSPS Subpart Kb  1233	40 CFR 60.113b(b)(6)(i)	If defects including seals with holes, tears, or other openings, are detected during inspection of an emptied & degassed EFR tank, repair the items as necessary before filling or refilling vessel with VOL.	Maintain records that demonstrate defects detected during inspections are repaired prior to refilling with a volatile organic liquid.
NSPS Subpart Kb  1234	40 CFR 60.113b(b)(6)(ii)	For all inspections where EFR tank was emptied & degassed, notify the Administrator in writing 30 days prior to refilling. If inspection was unplanned, notify the Administrator at least 7 days prior by telephone and follow-up in writing.	Maintain copies of notifications to the Administrator on site for at least 5 years from date of notification.
NSPS Subpart Kb  1235	40 CFR 60.115b(b)(1)	Submit a report to the Administrator that describes the control equipment (i.e. EFR) and certifies that the control equipment meets the specifications of this regulation. Attach report with notification required in 40 CFR 60.7(a)(3).	Maintain copies of reports on site for at least 5 years from date of report.
NSPS Subpart Kb  1236	40 CFR 60.115b(b)(2)	Submit report to Administrator within 60 days of seal gap measurements on the EFR tank. Report should contain date of measurement, raw data, and calculations.	Maintain copies of reports on site for at least 5 years from date of report.

Emission Source ID TK-3501  
Source Description Storage Tank

Process Unit  
No 1 Crude Unit-03

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart Kb  1237	40 CFR 60.115b(b)(3)	Maintain a record for at least 5 years of each gap measurement performed as required on the EFR tank. Record shall identify vessel measured, date of measurement, raw data, and calculations.	Maintain records of inspections and other data on site for at least 5 years.
NSPS Subpart Kb  1238	40 CFR 60.115b(b)(4)	If gaps in exceedance of the limitation are detected on the EFR, submit a report to the Administrator within 30 days of the inspection. Identify the vessel, date of measurement, raw data, calculations, and date vessel was emptied or repaired.	Maintain copies of reports on site for at least 5 years from date of report.
NSPS Subpart Kb  1239	40 CFR 60.116b(b)	Keep readily accessible records for the life of the source showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel (unless the vessel has design capacity <75 cu. m).	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
NSPS Subpart Kb  1240	40 CFR 60.116b(c)	Maintain a record for at least 5 years of the VOL stored, the period of storage, and the max TVP of that VOL during the respective storage period.	Maintain records of inspections and other data on site for at least 5 years.



Emission Source ID TK-5503  
Source Description Storage Tank

Process Unit  
No 1 Crude Unit-03

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
1241			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.
1242			

Emission Source ID TK-5504  
Source Description Storage Tank

Process Unit  
No 1&2 Vacuum Unit-04

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1243	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  1244	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.

Emission Source ID TK-5505  
Source Description Storage Tank

Process Unit  
No 1&2 Vacuum Unit-04

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
1245			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.
1246			

Emission Source ID TK-6701  
Source Description Storage Tank

Process Unit  
TIP Unit-16

CLASS 1 OPERATING PERMIT

Source ID No.: 1250003

ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119 (c )(1)(i-ii)	Equip the EFR with a closure device consisting of 2 seals, one above the other. Primary seal shall be metallic shoe seal or liquid-mounted seal.	Maintain records that demonstrate the external floating roof is equipped with a closure consisting of two seals, a primary mechanical shoe seal or liquid mounted seal and a rim-mounted secondary seal.
1247			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(a)(1)	Ensure that the tank is equipped w/either a fixed roof & IFR, an EFR, an EFR converted to an IFR, CVS w/control device, or equivalent system as provided in 40 CFR 63.121.	Maintain records that demonstrate the tank is equipped with an external floating roof.
1248			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(a)(2)	Ensure that the TVP of the stored liquid remains <76.6kPa (11.1psia) or equip the vessel with CVS and control device and comply with the associated requirements.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP >11.1psia.
1249			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(1)(iii)	Ensure that the primary and secondary seals completely cover the annular space between the EFR and vessel wall in a continuous fashion.	Maintain records that demonstrate seals completely cover the annular space between the roof and vessel wall in a continuous fashion. Inspect seals at a frequency specified in the referenced citation.
1250			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(1)(iv)	Ensure that the EFR is equipped with a secondary seal.	Maintain records that demonstrate the tank is equipped with a rim-mounted secondary seal.
1251			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(3)(i-iii)	Ensure EFR is floating on liquid surface at all times except when supported by leg supports during initial fill, after emptied and degassed, and when emptied before being subsequently refilled.	Maintain records that verify that the liquid is at a level which ensures the roof is floating on the liquid surface at all times.
1252			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(4)	Ensure that when the EFR is resting on leg supports that the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as possible.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
1253			

Emission Source ID TK-6701  
Source Description Storage Tank

Process Unit  
TIP Unit-16

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks 1254	40 CFR 63.646(a) & 63.120(b)(1)(ii)	Closure consists of two seals, a metallic shoe primary seal and a rim-mounted secondary seal.	Maintain records to demonstrate compliance as specified in the referenced citation.
MACT Subpart CC - Tanks 1255	40 CFR 63.646(a) & 63.120(b)(1)(iii)	For EFR tanks with double seals, measure gap between the vessel wall and the secondary seal.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
MACT Subpart CC - Tanks 1256	40 CFR 63.646(a) & 63.120(b)(1)(iv)	If vessel ceases to store organic HAP or TVP falls below threshold for 1 year or >, seal gap measurements shall be performed within 90 days of refilling EFR tank with HAP.	Maintain a log of tank service. Perform gap measurements within 90 days of any tank that is out-of-service for 1 year or more.
MACT Subpart CC - Tanks 1257	40 CFR 63.646(a) & 63.120(b)(10)	Visually inspect the EFR, seals, and fittings each time the vessel is emptied and degassed.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of the inspection on site for at least 5 years.
MACT Subpart CC - Tanks 1258	40 CFR 63.646(a) & 63.120(b)(10)(ii-iii)	Notify Administrator in writing 30 days prior to filling or refilling each emptied/degassed EFR tank. If unplanned inspection, make notification at least 7 days prior by phone and follow-up in writing.	Maintain copies of notifications to the Administrator on site for at least 5 years from the date of the notification.
MACT Subpart CC - Tanks 1259	40 CFR 63.646(a) & 63.120(b)(2)(i-iii)	Ensure that all gap measurements on the EFR are made according to the guidelines outlined in 40 CFR 63.120(b)(2)(i-iii).	Calculate gap areas using the method and guidelines in the specified citation. Retain these calculations for at least 5 years following the date of measurement.
MACT Subpart CC - Tanks 1260	40 CFR 63.646(a) & 63.120(b)(3)	Ensure that the accumulated area of gaps between EFR tank wall and primary seal does not exceed 212 sq. cm/m diameter & width of any gap does not exceed 3.18 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.

Emission Source ID TK-6701  
Source Description Storage Tank

Process Unit  
TIP Unit-16

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(4)	Ensure that the accumulated area of gaps between EFR tank wall and secondary seal does not exceed 21.2 sq. cm/m diameter and width of any gap does not exceed 1.27 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
1261			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(5)(i)	If metallic shoe seal is in use ensure one end of the seal extends into the stored liquid and other end extends a minimum vertical distance of 61 cm above the stored liquid surface.	Maintain records that demonstrate the mechanical shoe seal is designed to have one end extend into the stored liquid and the other end extend a minimum vertical distance of 61cm above the stored liquid surface.
1262			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(5)(ii)&(b)(6)(i)	Ensure that there are no holes, tears, or other openings in the shoe, seal fabric, or seal envelope of the primary seal or secondary seal of the EFR.	Verify the condition of the primary and/or secondary seals during inspections. Maintain a record of the inspections.
1263			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(6)(i)	Ensure that the secondary seal is installed above the primary seal so that it completely covers the space between the roof edge and the EFR tank wall.	Verify the condition of the primary and/or secondary seals during inspections. Maintain a record of the inspections.
1264			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(7)(i-ii)	If EFR is unsafe to perform seal gap measurements, measure gaps or inspect no later than 30 day after the determination or empty tank within 45 days or request an extension.	Measure gaps within 30 days or when tank is emptied or when an extension is requested. Maintain records of these actions on site for at least 5 years.
1265			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(8)	Within 45 days, repair conditions not meeting requirements (gap exceedances, holes in seals/fabric, seals not installed) or remove EFR tank from service or request extension.	Maintain records that demonstrate repairs are made in a timely manner and completed within 45 days, or that the tank is empty, or that an extension is requested. Maintain a record of the request on site for 5 years.
1266			
MACT Subpart CC - Tanks	40 CFR 63.646(a)(e)&63.120(b)(10)(i)	For existing sources, repair defects found during inspection of emptied/degassed EFR tank before refilling w/HAP. Defects include holes, tears, openings in seal fabric, or slotted membranes w/ >10% open area (after MACT compliance date).	Maintain records that demonstrate defects detected during inspections are repaired prior to refilling with a volatile organic liquid.
1267			

Process Unit  
TIP Unit-16

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(b)(1)	Document any data, assumptions, and procedures used to group classification for storage vessels subject to this Subpart.	Maintain data, assumptions and calculations for determination of group status as long as status remains unchanged.
1268			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(1)	Ensure that if a cover or lid is installed on an opening in a floating roof, that it remains closed except when it must be open for access.	Maintain records that demonstrate openings were designed and built with gasketed covers or lids. Perform visual inspections of the covers to ensure closure.
1269			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(3)	Ensure that the automatic bleeder vents are closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
1270			
MACT Subpart CC - Tanks	40 CFR 63.654(f)(1)(i)(A-D)	Ensure that the Notification of Compliance Status report contains information specified in 40 CFR 63.654(f)(1)(i)(A-D).	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
1271			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(i)(A-D)	For seal gap measurements of EFR tanks in which the gap limits were exceeded, submit with the Periodic Report, the information specified in 40 CFR 63.654(g)(3)(i)(A-D).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1272			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(ii)	If an extension was used to repair a failure or empty a tank, include in the Periodic Report the information specified in 40 CFR 63.654(g)(3)(ii).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1273			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(iii)(B)	For inspections of emptied and degassed EFR tanks, include in the next Periodic Report the information specified in 40 CFR 63.654(g)(3)(iii)(B) of any failures detected.	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1274			
MACT Subpart CC - Tanks	40 CFR 63.654(h)(2)(ii) & 63.120(b)(9)	Notify the Administrator in writing 30 days prior to gap measurements of the EFR tank.	Maintain copies of notifications to the Administrator on site for at least 5 years from the date of the notification.
1275			

Emission Source ID TK-6701  
Source Description Storage Tank

Process Unit  
TIP Unit-16

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1276	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep records as long as vessel retains Group1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  1277	40 CFR 63.654(i)(1)(i-iii) & 63.123(b)	Maintain a record of reports submitted in accordance with 40 CFR 63.654(e) including the Notification of Compliance Status, Periodic Reports, & other reports for at least 5 yrs from the date of report.	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
MACT Subpart CC - Tanks  1278	40 CFR 63.654(i)(1)(i-iii) & 63.123(d)	EFR tanks complying w/40 CFR 63.119(c ), maintain records (5 yrs from measure date) describing results of ea. gap measurement including measurement date, raw data, & calculations.	Maintain records of each gap measurement on site for at least 5 years following date of measurement.
MACT Subpart CC - Tanks  1279	40 CFR 63.654(i)(1)(i-iii) & 63.123(g)	If an extension is used in emptying a tank in accordance with 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8), maintain the documentation outlined in those sections.	Maintain required documentation on site for at least 5 years.



Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(a)(1)	Ensure that the tank is equipped with either a fixed roof and IFR, an EFR, an EFR converted to an IFR, CVS with control device, or equivalent system as provided in 40 CFR 63.121.	Maintain records that demonstrate tank is equipped with a fixed roof and internal floating roof.
1280			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(a)(2)	Ensure that the TVP of the stored liquid remains <76.6 kPa (11.1 psia) or equip the vessel with CVS and control device and comply with the associated requirements.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP > 11.1 psia.
1281			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(a)(2)	Ensure that the TVP of the stored liquid remains <76.6kPa (11.1psia) or equip the vessel with CVS and control device and comply with the associated requirements.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP > 11.1 psia.
1282			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(b)(1)	Ensure that the IFR is floating on the liquid surface at all times except when it must be supported by leg supports during initial fill, after vessel has been completely emptied and degassed.	Maintain records to verify that the liquid is at a level which ensures the roof is floating on the liquid surface at all times except when supported by leg supports when emptied and degassed and during filling.
1283			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(b)(2)	Ensure that when the IFR is resting on the leg supports, the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as possible.	Follow standard operating procedures to empty or refill the vessel as soon as possible, in a safe and effective manner.
1284			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(b)(3)(i-iii)	Equip the IFR with a closure device between the vessel wall and the roof edge. Device to be a liquid-mounted seal, metallic shoe seal, or two seals one above the other forming a continuous closure.	Maintain records that demonstrate closure consists of a seal between the tank wall and cover edge.
1285			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(b)(4)	Ensure that the automatic bleeder vents are closed at all times when the IFR is floating except when the roof is being floated off or is being landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
1286			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(a)(2)(i)	For single-seal systems, visually inspect the IFR and seals thru manholes and roof hatches on fixed roof once every 12 months after initial fill.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.
1287			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1288	40 CFR 63.646(a) & 63.120(a)(2)(ii)	For existing sources that have single-seal systems, visually inspect the IFR, and seal each time vessel is emptied and degassed and at least once every 10 years.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.
MACT Subpart CC - Tanks  1289	40 CFR 63.646(a) & 63.120(a)(3)(i-iii)	For existing sources with double-seal systems, visually inspect IFR & seals each time tank emptied & degassed & at least once/5 yrs or inspect thru manholes once every 12 mos. and each time tank emptied & degassed at least once/10 yrs.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.
MACT Subpart CC - Tanks  1290	40 CFR 63.646(a) & 63.120(a)(7)	Before refilling an existing IFR tank, that has been emptied and degassed, repair any defective conditions detected including holes, tears, or openings in seals or seal fabric.	Maintain records that demonstrate defects detected during inspections are repaired prior to refilling with a volatile organic liquid.
MACT Subpart CC - Tanks  1291	40 CFR 63.646(a) & 63.654(g)(2)(i)(A) & 63.120(a)(4)	Within 45 days, repair defective conditions such as IFR not resting on liquid surface, liquid accumulated on roof, holes/tears in seal fabric, visible gaps or empty vessel or request 30 day extension.	Maintain records that demonstrate that defects, holes, tears, and openings, detected during inspection are repaired before filling the vessel with a volatile organic liquid.
MACT Subpart CC - Tanks  1292	40 CFR 63.646(b)(1)	Document any data, assumptions, and procedures used to determine group classification for the storage vessels subject to this Subpart.	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.
MACT Subpart CC - Tanks  1293	40 CFR 63.646(f)(1)	Ensure that if a cover or lid is installed on an opening in a floating roof, that it remains closed except when it must be open for access.	Maintain records that demonstrate each opening was designed and built with gasketed covers or lids. Perform visual inspection of the cover during required annual roof seal inspections to ensure all covers and lids are closed.
MACT Subpart CC - Tanks  1294	40 CFR 63.646(f)(2)	Ensure that rim space vents are set to open only when the floating roof is not floating or when the pressure beneath the rim seal exceeds the manufacturer's recommended setting.	Maintain records that demonstrate the rim space vents are designed to open only when the floating roof is setting on its legs or when the pressure beneath the seal actually exceeds the manufacturer's recommended setting.

Process Unit  
Product Loading-96

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(f)(3)	Ensure that the automatic bleeder vents are closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
1295			
MACT Subpart CC - Tanks	40 CFR 63.654(f)(1)(i)(A-D)	Ensure that the Notification of Compliance Status report contains information specified in 40 CFR 63.654(f)(1)(i)(A-D) to include identification of each vessel subject to MACT, group classification, and method of compliance.	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
1296			
MACT Subpart CC - Tanks	40 CFR 63.654(f)(3)	Include in the Notification of Compliance Status report information specified in 40 CFR 654(f)(3)(i-iii) regarding monitored parameter for which a range is required to be established under 40 CFR 63.120(d).	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
1297			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(2)(i)(B)	Ensure that the Periodic Report submitted in accordance with 40 CFR 63.654(g) includes information specified in 40 CFR 63.654(g)(2)(i)(B) regarding failures found during vessel inspection.	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1298			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(2)(i)(C)	If an extension was used to repair a failure or empty an IFR tank, include in the next Periodic Report, the information specified in 40 CFR 63.654(g)(2)(i)(C).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1299			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(2)(ii)(A-B)	For IFR tanks that were emptied & degassed for which a failure (as defined in 40 CFR 654(g)(2)(ii)(A)) was detected, include the information specified in 40 CFR 654(g)(2)(ii)(B) in the next Periodic Report.	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1300			
MACT Subpart CC - Tanks	40 CFR 63.654(h)(2)(i)(A-C) & 63.120(a)(5-6)	Notify the Administrator in writing at least 30 days prior to refilling IFR tank. If unplanned, notify at least 7 days by telephone and follow-up in writing.	Maintain copies of notifications to the Administrator on site for at least 5 years from date of notification.
1301			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
1302			

Emission Source ID TK-8001  
Source Description Storage Tank

Process Unit  
Product Loading-96

CLASS 1 OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1303	40 CFR 63.654(i)(1)(i-iii) & 63.123(b)	Maintain a record of all reports submitted in accordance with 40 CFR 63.654(e) including the Notification of Compliance Status, Periodic Reports, and other reports for at least 5 yrs from date of report.	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
MACT Subpart CC - Tanks  1304	40 CFR 63.654(i)(1)(i-iii) & 63.123(c)	For IFR tanks complying with 40 CFR 63.119(b), maintain a record that each inspection required by 40 CFR 63.120(a) was performed for 5 yrs from date of inspection.	Maintain required documentation on site for 5 years unless otherwise specified in the referenced citation.
MACT Subpart CC - Tanks  1305	40 CFR 63.654(i)(1)(i-iii) & 63.123(g)	If an extension is used in emptying a tank in accordance with 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8), maintain the documentation outlined in 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8).	Maintain required documentation on site for at least 5 years.

Emission Source ID TK-8002  
Source Description Storage Tank

Process Unit  
Product Loading-96

CLASS 1 OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(1)(i-ii)	Equip the EFR with a closure device consisting of 2 seals, one above the other. Primary seal shall be metallic shoe seal or liquid-mounted seal.	Maintain records that demonstrate the external floating roof is equipped with a closure consisting of two seals, a primary mechanical shoe seal or liquid mounted seal and a rim-mounted secondary seal.
1306			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(a)(1)	Ensure that the tank is equipped w/either a fixed roof & IFR, an EFR, an EFR converted to an IFR, CVS w/control device, or equivalent system as provided in 40 CFR 63.121.	Maintain records that demonstrate the tank is equipped with an external floating roof.
1307			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(a)(2)	Ensure that the TVP of the stored liquid remains <76.6kPa (11.1psia) or equip the vessel with CVS and control device and comply with the associated requirements.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP >11.1psia.
1308			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(1)(iii)	Ensure that the primary and secondary seals completely cover the annular space between the EFR and vessel wall in a continuous fashion.	Maintain records that demonstrate seals completely cover the annular space between the roof and vessel wall in a continuous fashion. Inspect seals at a frequency specified in the referenced citation.
1309			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(1)(iv)	Ensure that the EFR is equipped with a secondary seal.	Maintain records that demonstrate the tank is equipped with a rim-mounted secondary seal.
1310			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(3)(i-iii)	Ensure EFR is floating on liquid surface at all times except when supported by leg supports during initial fill, after emptied and degassed, and when emptied before being subsequently refilled.	Maintain records that verify that the liquid is at a level which ensures the roof is floating on the liquid surface at all times.
1311			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(4)	Ensure that when the EFR is resting on leg supports that the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as possible.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
1312			

Emission Source ID TK-8002  
Source Description Storage Tank

Process Unit  
Product Loading-96

CLASS 1 OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks 1313	40 CFR 63.646(a) & 63.120(b)(1)(ii)	Closure consists of two seals, a metallic shoe primary seal and a rim-mounted secondary seal.	Maintain records to demonstrate compliance as specified in the referenced citation.
MACT Subpart CC - Tanks 1314	40 CFR 63.646(a) & 63.120(b)(1)(iii)	For EFR tanks with double seals, measure gap between the vessel wall and the secondary seal.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
MACT Subpart CC - Tanks 1315	40 CFR 63.646(a) & 63.120(b)(1)(iv)	If vessel ceases to store organic HAP or TVP falls below threshold for 1 year or >, seal gap measurements shall be performed within 90 days of refilling EFR tank with HAP.	Maintain a log of tank service. Perform gap measurements within 90 days of any tank that is out-of-service for 1 year or more.
MACT Subpart CC - Tanks 1316	40 CFR 63.646(a) & 63.120(b)(10)	Visually inspect the EFR, seals, and fittings each time the vessel is emptied and degassed.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of the inspection on site for at least 5 years.
MACT Subpart CC - Tanks 1317	40 CFR 63.646(a) & 63.120(b)(10)(ii-iii)	Notify Administrator in writing 30 days prior to filling or refilling each emptied/degassed EFR tank. If unplanned inspection, make notification at least 7 days prior by phone and follow-up in writing.	Maintain copies of notifications to the Administrator on site for at least 5 years from the date of the notification.
MACT Subpart CC - Tanks 1318	40 CFR 63.646(a) & 63.120(b)(2)(i-iii)	Ensure that all gap measurements on the EFR are made according to the guidelines outlined in 40 CFR 63.120(b)(2)(i-iii).	Calculate gap areas using the method and guidelines in the specified citation. Retain these calculations for at least 5 years following the date of measurement.
MACT Subpart CC - Tanks 1319	40 CFR 63.646(a) & 63.120(b)(3)	Ensure that the accumulated area of gaps between EFR tank wall and primary seal does not exceed 212 sq. cm/m diameter & width of any gap does not exceed 3.18 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.

Emission Source ID TK-8002  
Source Description Storage Tank

Process Unit  
Product Loading-96

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(4)	Ensure that the accumulated area of gaps between EFR tank wall and secondary seal does not exceed 21.2 sq. cm/m diameter and width of any gap does not exceed 1.27 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
1320 MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(5)(i)	If metallic shoe seal is in use ensure one end of the seal extends into the stored liquid and other end extends a minimum vertical distance of 61 cm above the stored liquid surface.	Maintain records that demonstrate the mechanical shoe seal is designed to have one end extend into the stored liquid and the other end extend a minimum vertical distance of 61cm above the stored liquid surface.
1321 MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(5)(ii)&(b)(6)(i)	Ensure that there are no holes, tears, or other openings in the shoe, seal fabric, or seal envelope of the primary seal or secondary seal of the EFR.	Verify the condition of the primary and/or secondary seals during inspections. Maintain a record of the inspections.
1322 MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(6)(i)	Ensure that the secondary seal is installed above the primary seal so that it completely covers the space between the roof edge and the EFR tank wall.	Verify the condition of the primary and/or secondary seals during inspections. Maintain a record of the inspections.
1323 MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(7)(i-ii)	If EFR is unsafe to perform seal gap measurements, measure gaps or inspect no later than 30 day after the determination or empty tank within 45 days or request an extension.	Measure gaps within 30 days or when tank is emptied or when an extension is requested. Maintain records of these actions on site for at least 5 years.
1324 MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(8)	Within 45 days, repair conditions not meeting requirements (gap exceedances, holes in seals/fabric, seals not installed) or remove EFR tank from service or request extension.	Maintain records that demonstrate repairs are made in a timely manner and completed within 45 days, or that the tank is empty, or that an extension is requested. Maintain a record of the request on site for 5 years.
1325 MACT Subpart CC - Tanks	40 CFR 63.646(a)(e)&63.120(b)(10)(i)	For existing sources, repair defects found during inspection of emptied/degassed EFR tank before refilling w/HAP. Defects include holes, tears, openings in seal fabric, or slotted membranes w/ >10% open area (after MACT compliance date).	Maintain records that demonstrate defects detected during inspections are repaired prior to refilling with a volatile organic liquid.
1326			

Emission Source ID TK-8002  
Source Description Storage Tank

Process Unit  
Product Loading-96

CLASS I OPERATING PERMIT

Source ID No.: 1250003

ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(b)(1)	Document any data, assumptions, and procedures used to group classification for storage vessels subject to this Subpart.	Maintain data, assumptions and calculations for determination of group status as long as status remains unchanged.
1327			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(1)	Ensure that if a cover or lid is installed on an opening in a floating roof, that it remains closed except when it must be open for access.	Maintain records that demonstrate openings were designed and built with gasketed covers or lids. Perform visual inspections of the covers to ensure closure.
1328			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(2)	Ensure that the rim-space vents are set to open when the floating roof is not floating or when the pressure beneath the rim-seal exceeds the manufacturer's recommended setting.	Maintain records that demonstrate rim-space vents are designed to open only when the floating roof is setting on its legs or when the pressure beneath the seal actually exceeds the manufacturer's recommended setting.
1329			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(3)	Ensure that the automatic bleeder vents are closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
1330			
MACT Subpart CC - Tanks	40 CFR 63.654(f)(1)(i)(A-D)	Ensure that the Notification of Compliance Status report contains information specified in 40 CFR 63.654(f)(1)(i)(A-D).	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
1331			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(i)(A-D)	For seal gap measurements of EFR tanks in which the gap limits were exceeded, submit with the Periodic Report, the information specified in 40 CFR 63.654(g)(3)(i)(A-D).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1332			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(ii)	If an extension was used to repair a failure or empty a tank, include in the Periodic Report the information specified in 40 CFR 63.654(g)(3)(ii).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1333			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(iii)(B)	For inspections of emptied and degassed EFR tanks, include in the next Periodic Report the information specified in 40 CFR 63.654(g)(3)(iii)(B) of any failures detected.	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1334			



Emission Source ID TK-8002  
Source Description Storage Tank

Process Unit  
Product Loading-96

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.654(h)(2)(ii) & 63.120(b)(9)	Notify the Administrator in writing 30 days prior to gap measurements of the EFR tank.	Maintain copies of notifications to the Administrator on site for at least 5 years from the date of the notification.
1335			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep records as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
1336			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1)(i-iii) & 63.123(b)	Maintain a record of reports submitted in accordance with 40 CFR 63.654(e) including the Notification of Compliance Status, Periodic Reports, & other reports for at least 5 yrs from the date of report.	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
1337			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1)(i-iii) & 63.123(d)	EFR tanks complying w/40 CFR 63.119(c), maintain records (5 yrs from measure date) describing results of ea. gap measurement including measurement date, raw data, & calculations.	Maintain records of each gap measurement on site for at least 5 years following date of measurement.
1338			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1)(i-iii) & 63.123(g)	If an extension is used in emptying a tank in accordance with 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8), maintain the documentation outlined in those sections.	Maintain required documentation on site for at least 5 years.
1339			

Process Unit  
Product Loading-96

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119 (c)(1)(i-ii)	Equip the EFR with a closure device consisting of 2 seals, one above the other. Primary seal shall be metallic shoe seal or liquid-mounted seal.	Maintain records that demonstrate the external floating roof is equipped with a closure consisting of two seals, a primary mechanical shoe seal or liquid mounted seal and a rim-mounted secondary seal.
1340			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(a)(1)	Ensure that the tank is equipped w/either a fixed roof & IFR, an EFR, an EFR converted to an IFR, CVS w/control device, or equivalent system as provided in 40 CFR 63.121.	Maintain records that demonstrate the tank is equipped with an external floating roof.
1341			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(a)(2)	Ensure that the TVP of the stored liquid remains <76.6kPa (11.1psia) or equip the vessel with CVS and control device and comply with the associated requirements.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP >11.1psia.
1342			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(1)(iii)	Ensure that the primary and secondary seals completely cover the annular space between the EFR and vessel wall in a continuous fashion.	Maintain records that demonstrate seals completely cover the annular space between the roof and vessel wall in a continuous fashion. Inspect seals at a frequency specified in the referenced citation.
1343			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(1)(iv)	Ensure that the EFR is equipped with a secondary seal.	Maintain records that demonstrate the tank is equipped with a rim-mounted secondary seal.
1344			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(3)(i-iii)	Ensure EFR is floating on liquid surface at all times except when supported by leg supports during initial fill, after emptied and degassed, and when emptied before being subsequently refilled.	Maintain records that verify that the liquid is at a level which ensures the roof is floating on the liquid surface at all times.
1345			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(4)	Ensure that when the EFR is resting on leg supports that the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as possible.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
1346			

Process Unit  
Product Loading-96

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks 1347	40 CFR 63.646(a) & 63.120(b)(1)(ii)	Closure consists of two seats, a metallic shoe primary seal and a rim-mounted secondary seal.	Maintain records to demonstrate compliance as specified in the referenced citation.
MACT Subpart CC - Tanks 1348	40 CFR 63.646(a) & 63.120(b)(1)(iii)	For EFR tanks with double seats, measure gap between the vessel wall and the secondary seal.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
MACT Subpart CC - Tanks 1349	40 CFR 63.646(a) & 63.120(b)(1)(iv)	If vessel ceases to store organic HAP or TVP falls below threshold for 1 year or >, seal gap measurements shall be performed within 90 days of refilling EFR tank with HAP.	Maintain a log of tank service. Perform gap measurements within 90 days of any tank that is out-of-service for 1 year or more.
MACT Subpart CC - Tanks 1350	40 CFR 63.646(a) & 63.120(b)(10)	Visually inspect the EFR, seals, and fittings each time the vessel is emptied and degassed.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of the inspection on site for at least 5 years.
MACT Subpart CC - Tanks 1351	40 CFR 63.646(a) & 63.120(b)(10)(ii-iii)	Notify Administrator in writing 30 days prior to filling or refilling each emptied/degassed EFR tank. If unplanned inspection, make notification at least 7 days prior by phone and follow-up in writing.	Maintain copies of notifications to the Administrator on site for at least 5 years from the date of the notification.
MACT Subpart CC - Tanks 1352	40 CFR 63.646(a) & 63.120(b)(2)(i-iii)	Ensure that all gap measurements on the EFR are made according to the guidelines outlined in 40 CFR 63.120(b)(2)(i-iii).	Calculate gap areas using the method and guidelines in the specified citation. Retain these calculations for at least 5 years following the date of measurement.
MACT Subpart CC - Tanks 1353	40 CFR 63.646(a) & 63.120(b)(3)	Ensure that the accumulated area of gaps between EFR tank wall and primary seal does not exceed 212 sq. cm/m diameter & width of any gap does not exceed 3.18 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.

Process Unit  
Product Loading-96

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(4)	Ensure that the accumulated area of gaps between EFR tank wall and secondary seal does not exceed 21.2 sq. cm/m diameter and width of any gap does not exceed 1.27 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
1354			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(5)(i)	If metallic shoe seal is in use ensure one end of the seal extends into the stored liquid and other end extends a minimum vertical distance of 61 cm above the stored liquid surface.	Maintain records that demonstrate the mechanical shoe seal is designed to have one end extend into the stored liquid and the other end extend a minimum vertical distance of 61cm above the stored liquid surface.
1355			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(5)(ii)&(b)(6)(i)	Ensure that there are no holes, tears, or other openings in the shoe, seal fabric, or seal envelope of the primary seal or secondary seal of the EFR.	Verify the condition of the primary and/or secondary seals during inspections. Maintain a record of the inspections.
1356			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(6)(i)	Ensure that the secondary seal is installed above the primary seal so that it completely covers the space between the roof edge and the EFR tank wall.	Verify the condition of the primary and/or secondary seals during inspections. Maintain a record of the inspections.
1357			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(7)(i-ii)	If EFR is unsafe to perform seal gap measurements, measure gaps or inspect no later than 30 day after the determination or empty tank within 45 days or request an extension.	Measure gaps within 30 days or when tank is emptied or when an extension is requested. Maintain records of these actions on site for at least 5 years.
1358			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(8)	Within 45 days, repair conditions not meeting requirements (gap exceedances, holes in seals/fabric, seals not installed) or remove EFR tank from service or request extension.	Maintain records that demonstrate repairs are made in a timely manner and completed within 45 days, or that the tank is empty, or that an extension is requested. Maintain a record of the request on site for 5 years.
1359			
MACT Subpart CC - Tanks	40 CFR 63.646(a)(e)&63.120(b)(10)(i)	For existing sources, repair defects found during inspection of emptied/degassed EFR tank before refilling w/HAP. Defects include holes, tears, openings in seal fabric, or slotted membranes w/ >10% open area (after MACT compliance date).	Maintain records that demonstrate defects detected during inspections are repaired prior to refilling with a volatile organic liquid.
1360			

Process Unit  
Product Loading-96

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(b)(1)	Document any data, assumptions, and procedures used to group classification for storage vessels subject to this Subpart.	Maintain data, assumptions and calculations for determination of group status as long as status remains unchanged.
1361			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(1)	Ensure that if a cover or lid is installed on an opening in a floating roof, that it remains closed except when it must be open for access.	Maintain records that demonstrate openings were designed and built with gasketed covers or lids. Perform visual inspections of the covers to ensure closure.
1362			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(2)	Ensure that the rim-space vents are set to open when the floating roof is not floating or when the pressure beneath the rim-seal exceeds the manufacturer's recommended setting.	Maintain records that demonstrate rim-space vents are designed to open only when the floating roof is setting on its legs or when the pressure beneath the seal actually exceeds the manufacturer's recommended setting.
1363			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(3)	Ensure that the automatic bleeder vents are closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
1364			
MACT Subpart CC - Tanks	40 CFR 63.654(f)(1)(i)(A-D)	Ensure that the Notification of Compliance Status report contains information specified in 40 CFR 63.654(f)(1)(i)(A-D).	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
1365			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(i)(A-D)	For seal gap measurements of EFR tanks in which the gap limits were exceeded, submit with the Periodic Report, the information specified in 40 CFR 63.654(g)(3)(i)(A-D).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1366			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(ii)	If an extension was used to repair a failure or empty a tank, include in the Periodic Report the information specified in 40 CFR 63.654(g)(3)(ii).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1367			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(iii)(B)	For inspections of emptied and degassed EFR tanks, include in the next Periodic Report the information specified in 40 CFR 63.654(g)(3)(iii)(B) of any failures detected.	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1368			

Emission Source ID TK-8003  
Source Description Storage Tank

Process Unit  
Product Loading-96

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.654(h)(2)(ii) & 63.120(b)(9)	Notify the Administrator in writing 30 days prior to gap measurements of the EFR tank.	Maintain copies of notifications to the Administrator on site for at least 5 years from the date of the notification.
1369			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep records as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
1370			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1)(i-iii) & 63.123(b)	Maintain a record of reports submitted in accordance with 40 CFR 63.654(e) including the Notification of Compliance Status, Periodic Reports, & other reports for at least 5 yrs from the date of report.	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
1371			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1)(i-iii) & 63.123(d)	EFR tanks complying w/40 CFR 63.119(c ), maintain records (5 yrs from measure date) describing results of ea. gap measurement including measurement date, raw data, & calculations.	Maintain records of each gap measurement on site for at least 5 years following date of measurement.
1372			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1)(i-iii) & 63.123(g)	If an extension is used in emptying a tank in accordance with 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8), maintain the documentation outlined in those sections.	Maintain required documentation on site for at least 5 years.
1373			

Emission Source ID TK-8004  
Source Description Storage Tank

Process Unit  
Product Loading-96

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119 (c)(1)(i-ii)	Equip the EFR with a closure device consisting of 2 seals, one above the other. Primary seal shall be metallic shoe seal or liquid-mounted seal.	Maintain records that demonstrate the external floating roof is equipped with a closure consisting of two seals, a primary mechanical shoe seal or liquid mounted seal and a rim-mounted secondary seal.
1374			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(a)(1)	Ensure that the tank is equipped w/either a fixed roof & IFR, an EFR, an EFR converted to an IFR, CVS w/control device, or equivalent system as provided in 40 CFR 63.121.	Maintain records that demonstrate the tank is equipped with an external floating roof.
1375			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(a)(2)	Ensure that the TVP of the stored liquid remains <76.6kPa (11.1psia) or equip the vessel with CVS and control device and comply with the associated requirements.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP >11.1psia.
1376			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(1)(iii)	Ensure that the primary and secondary seals completely cover the annular space between the EFR and vessel wall in a continuous fashion.	Maintain records that demonstrate seals completely cover the annular space between the roof and vessel wall in a continuous fashion. Inspect seals at a frequency specified in the referenced citation.
1377			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(1)(iv)	Ensure that the EFR is equipped with a secondary seal.	Maintain records that demonstrate the tank is equipped with a rim-mounted secondary seal.
1378			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(3)(i-iii)	Ensure EFR is floating on liquid surface at all times except when supported by leg supports during initial fill, after emptied and degassed, and when emptied before being subsequently refilled.	Maintain records that verify that the liquid is at a level which ensures the roof is floating on the liquid surface at all times.
1379			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(4)	Ensure that when the EFR is resting on leg supports that the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as possible.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
1380			

Emission Source ID TK-8004  
Source Description Storage Tank

Process Unit  
Product Loading-96

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks 1381	40 CFR 63.646(a) & 63.120(b)(1)(ii)	Closure consists of two seals, a metallic shoe primary seal and a rim-mounted secondary seal.	Maintain records to demonstrate compliance as specified in the referenced citation.
MACT Subpart CC - Tanks 1382	40 CFR 63.646(a) & 63.120(b)(1)(iii)	For EFR tanks with double seals, measure gap between the vessel wall and the secondary seal.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
MACT Subpart CC - Tanks 1383	40 CFR 63.646(a) & 63.120(b)(1)(iv)	If vessel ceases to store organic HAP or TVP falls below threshold for 1 year or >, seal gap measurements shall be performed within 90 days of refilling EFR tank with HAP.	Maintain a log of tank service. Perform gap measurements within 90 days of any tank that is out-of-service for 1 year or more.
MACT Subpart CC - Tanks 1384	40 CFR 63.646(a) & 63.120(b)(10)	Visually inspect the EFR, seals, and fittings each time the vessel is emptied and degassed.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of the inspection on site for at least 5 years.
MACT Subpart CC - Tanks 1385	40 CFR 63.646(a) & 63.120(b)(10)(ii-iii)	Notify Administrator in writing 30 days prior to filling or refilling each emptied/degassed EFR tank. If unplanned inspection, make notification at least 7 days prior by phone and follow-up in writing.	Maintain copies of notifications to the Administrator on site for at least 5 years from the date of the notification.
MACT Subpart CC - Tanks 1386	40 CFR 63.646(a) & 63.120(b)(2)(i-iii)	Ensure that all gap measurements on the EFR are made according to the guidelines outlined in 40 CFR 63.120(b)(2)(i-iii).	Calculate gap areas using the method and guidelines in the specified citation. Retain these calculations for at least 5 years following the date of measurement.
MACT Subpart CC - Tanks 1387	40 CFR 63.646(a) & 63.120(b)(3)	Ensure that the accumulated area of gaps between EFR tank wall and primary seal does not exceed 212 sq. cm/m diameter & width of any gap does not exceed 3.18 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.



Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(4)	Ensure that the accumulated area of gaps between EFR tank wall and secondary seal does not exceed 21.2 sq. cm/m diameter and width of any gap does not exceed 1.27 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
1388			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(5)(i)	If metallic shoe seal is in use ensure one end of the seal extends into the stored liquid and other end extends a minimum vertical distance of 61 cm above the stored liquid surface.	Maintain records that demonstrate the mechanical shoe seal is designed to have one end extend into the stored liquid and the other end extend a minimum vertical distance of 61cm above the stored liquid surface.
1389			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(5)(ii)&(b)(6)(i)	Ensure that there are no holes, tears, or other openings in the shoe, seal fabric, or seal envelope of the primary seal or secondary seal of the EFR.	Verify the condition of the primary and/or secondary seals during inspections. Maintain a record of the inspections.
1390			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(6)(i)	Ensure that the secondary seal is installed above the primary seal so that it completely covers the space between the roof edge and the EFR tank wall.	Verify the condition of the primary and/or secondary seals during inspections. Maintain a record of the inspections.
1391			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(7)(i-ii)	If EFR is unsafe to perform seal gap measurements, measure gaps or inspect no later than 30 day after the determination or empty tank within 45 days or request an extension.	Measure gaps within 30 days or when tank is emptied or when an extension is requested. Maintain records of these actions on site for at least 5 years.
1392			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(8)	Within 45 days, repair conditions not meeting requirements (gap exceedances, holes in seals/fabric, seals not installed) or remove EFR tank from service or request extension.	Maintain records that demonstrate repairs are made in a timely manner and completed within 45 days, or that the tank is empty, or that an extension is requested. Maintain a record of the request on site for 5 years.
1393			
MACT Subpart CC - Tanks	40 CFR 63.646(a)(e)&63.120(b)(10)(i)	For existing sources, repair defects found during inspection of emptied/degassed EFR tank before refilling w/HAP. Defects include holes, tears, openings in seal fabric, or slotted membranes w/ >10% open area (after MACT compliance date).	Maintain records that demonstrate defects detected during inspections are repaired prior to refilling with a volatile organic liquid.
1394			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(b)(1)	Document any data, assumptions, and procedures used to group classification for storage vessels subject to this Subpart.	Maintain data, assumptions and calculations for determination of group status as long as status remains unchanged.
1395			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(1)	Ensure that if a cover or lid is installed on an opening in a floating roof, that it remains closed except when it must be open for access.	Maintain records that demonstrate openings were designed and built with gasketed covers or lids. Perform visual inspections of the covers to ensure closure.
1396			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(3)	Ensure that the automatic bleeder vents are closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
1397			
MACT Subpart CC - Tanks	40 CFR 63.654(f)(1)(i)(A-D)	Ensure that the Notification of Compliance Status report contains information specified in 40 CFR 63.654(f)(1)(i)(A-D).	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
1398			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(i)(A-D)	For seal gap measurements of EFR tanks in which the gap limits were exceeded, submit with the Periodic Report, the information specified in 40 CFR 63.654(g)(3)(i)(A-D).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1399			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(ii)	If an extension was used to repair a failure or empty a tank, include in the Periodic Report the information specified in 40 CFR 63.654(g)(3)(ii).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1400			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(iii)(B)	For inspections of emptied and degassed EFR tanks, include in the next Periodic Report the information specified in 40 CFR 63.654(g)(3)(iii)(B) of any failures detected.	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1401			
MACT Subpart CC - Tanks	40 CFR 63.654(h)(2)(ii) & 63.120(b)(9)	Notify the Administrator in writing 30 days prior to gap measurements of the EFR tank.	Maintain copies of notifications to the Administrator on site for at least 5 years from the date of the notification.
1402			

Emission Source ID TK-8004  
Source Description Storage Tank

Process Unit  
Product Loading-96

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep records as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
1403			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1)(i-iii) & 63.123(b)	Maintain a record of reports submitted in accordance with 40 CFR 63.654(e) including the Notification of Compliance Status, Periodic Reports, & other reports for at least 5 yrs from the date of report.	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
1404			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1)(i-iii) & 63.123(d)	EFR tanks complying w/40 CFR 63.119(c), maintain records (5 yrs from measure date) describing results of ea. gap measurement including measurement date, raw data, & calculations.	Maintain records of each gap measurement on site for at least 5 years following date of measurement.
1405			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1)(i-iii) & 63.123(g)	If an extension is used in emptying a tank in accordance with 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8), maintain the documentation outlined in those sections.	Maintain required documentation on site for at least 5 years.
1406			

Emission Source ID TK-8005  
Source Description Storage Tank

Process Unit  
Product Loading-96

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119 (c)(1)(i-ii)	Equip the EFR with a closure device consisting of 2 seals, one above the other. Primary seal shall be metallic shoe seal or liquid-mounted seal.	Maintain records that demonstrate the external floating roof is equipped with a closure consisting of two seals, a primary mechanical shoe seal or liquid mounted seal and a rim-mounted secondary seal.
1407			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(a)(1)	Ensure that the tank is equipped w/either a fixed roof & IFR, an EFR, an EFR converted to an IFR, CVS w/control device, or equivalent system as provided in 40 CFR 63.121.	Maintain records that demonstrate the tank is equipped with an external floating roof.
1408			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(a)(2)	Ensure that the TVP of the stored liquid remains <76.6kPa (11.1psia) or equip the vessel with CVS and control device and comply with the associated requirements.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP >11.1psia.
1409			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(1)(iii)	Ensure that the primary and secondary seals completely cover the annular space between the EFR and vessel wall in a continuous fashion.	Maintain records that demonstrate seals completely cover the annular space between the roof and vessel wall in a continuous fashion. Inspect seals at a frequency specified in the referenced citation.
1410			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(1)(iv)	Ensure that the EFR is equipped with a secondary seal.	Maintain records that demonstrate the tank is equipped with a rim-mounted secondary seal.
1411			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(3)(i-iii)	Ensure EFR is floating on liquid surface at all times except when supported by leg supports during initial fill, after emptied and degassed, and when emptied before being subsequently refilled.	Maintain records that verify that the liquid is at a level which ensures the roof is floating on the liquid surface at all times.
1412			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(4)	Ensure that when the EFR is resting on leg supports that the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as possible.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
1413			

Emission Source ID TK-8005  
Source Description Storage Tank

Process Unit  
Product Loading-96

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks 1414	40 CFR 63.646(a) & 63.120(b)(1)(ii)	Closure consists of two seals, a metallic shoe primary seal and a rim-mounted secondary seal.	Maintain records to demonstrate compliance as specified in the referenced citation.
MACT Subpart CC - Tanks 1415	40 CFR 63.646(a) & 63.120(b)(1)(iii)	For EFR tanks with double seals, measure gap between the vessel wall and the secondary seal.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
MACT Subpart CC - Tanks 1416	40 CFR 63.646(a) & 63.120(b)(1)(iv)	If vessel ceases to store organic HAP or TVP falls below threshold for 1 year or >, seal gap measurements shall be performed within 90 days of refilling EFR tank with HAP.	Maintain a log of tank service. Perform gap measurements within 90 days of any tank that is out-of-service for 1 year or more.
MACT Subpart CC - Tanks 1417	40 CFR 63.646(a) & 63.120(b)(10)	Visually inspect the EFR, seals, and fittings each time the vessel is emptied and degassed.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of the inspection on site for at least 5 years.
MACT Subpart CC - Tanks 1418	40 CFR 63.646(a) & 63.120(b)(10)(i-iii)	Notify Administrator in writing 30 days prior to filling or refilling each emptied/degassed EFR tank. If unplanned inspection, make notification at least 7 days prior by phone and follow-up in writing.	Maintain copies of notifications to the Administrator on site for at least 5 years from the date of the notification.
MACT Subpart CC - Tanks 1419	40 CFR 63.646(a) & 63.120(b)(2)(i-iii)	Ensure that all gap measurements on the EFR are made according to the guidelines outlined in 40 CFR 63.120(b)(2)(i-iii).	Calculate gap areas using the method and guidelines in the specified citation. Retain these calculations for at least 5 years following the date of measurement.
MACT Subpart CC - Tanks 1420	40 CFR 63.646(a) & 63.120(b)(3)	Ensure that the accumulated area of gaps between EFR tank wall and primary seal does not exceed 212 sq. cm/m diameter & width of any gap does not exceed 3.18 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(4)	Ensure that the accumulated area of gaps between EFR tank wall and secondary seal does not exceed 21.2 sq. cm/m diameter and width of any gap does not exceed 1.27 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
1421			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(5)(i)	If metallic shoe seal is in use ensure one end of the seal extends into the stored liquid and other end extends a minimum vertical distance of 61 cm above the stored liquid surface.	Maintain records that demonstrate the mechanical shoe seal is designed to have one end extend into the stored liquid and the other end extend a minimum vertical distance of 61cm above the stored liquid surface.
1422			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(5)(ii)&(b)(6)(i)	Ensure that there are no holes, tears, or other openings in the shoe, seal fabric, or seal envelope of the primary seal or secondary seal of the EFR.	Verify the condition of the primary and/or secondary seals during inspections. Maintain a record of the inspections.
1423			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(6)(i)	Ensure that the secondary seal is installed above the primary seal so that it completely covers the space between the roof edge and the EFR tank wall.	Verify the condition of the primary and/or secondary seals during inspections. Maintain a record of the inspections.
1424			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(7)(i-ii)	If EFR is unsafe to perform seal gap measurements, measure gaps or inspect no later than 30 day after the determination or empty tank within 45 days or request an extension.	Measure gaps within 30 days or when tank is emptied or when an extension is requested. Maintain records of these actions on site for at least 5 years.
1425			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(8)	Within 45 days, repair conditions not meeting requirements (gap exceedances, holes in seals/fabric, seals not installed) or remove EFR tank from service or request extension.	Maintain records that demonstrate repairs are made in a timely manner and completed within 45 days, or that the tank is empty, or that an extension is requested. Maintain a record of the request on site for 5 years.
1426			
MACT Subpart CC - Tanks	40 CFR 63.646(a)(e)&63.120(b)(10)(i)	For existing sources, repair defects found during inspection of emptied/degassed EFR tank before refilling w/HAP. Defects include holes, tears, openings in seal fabric, or slotted membranes w/ >10% open area (after MACT compliance date).	Maintain records that demonstrate defects detected during inspections are repaired prior to refilling with a volatile organic liquid.
1427			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(b)(1)	Document any data, assumptions, and procedures used to group classification for storage vessels subject to this Subpart.	Maintain data, assumptions and calculations for determination of group status as long as status remains unchanged.
1428			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(1)	Ensure that if a cover or lid is installed on an opening in a floating roof, that it remains closed except when it must be open for access.	Maintain records that demonstrate openings were designed and built with gasketed covers or lids. Perform visual inspections of the covers to ensure closure.
1429			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(3)	Ensure that the automatic bleeder vents are closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
1430			
MACT Subpart CC - Tanks	40 CFR 63.654(f)(1)(i)(A-D)	Ensure that the Notification of Compliance Status report contains information specified in 40 CFR 63.654(f)(1)(i)(A-D).	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
1431			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(i)(A-D)	For seal gap measurements of EFR tanks in which the gap limits were exceeded, submit with the Periodic Report, the information specified in 40 CFR 63.654(g)(3)(i)(A-D).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1432			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(ii)	If an extension was used to repair a failure or empty a tank, include in the Periodic Report the information specified in 40 CFR 63.654(g)(3)(ii).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1433			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(iii)(B)	For inspections of emptied and degassed EFR tanks, include in the next Periodic Report the information specified in 40 CFR 63.654(g)(3)(iii)(B) of any failures detected.	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1434			
MACT Subpart CC - Tanks	40 CFR 63.654(h)(2)(ii) & 63.120(b)(9)	Notify the Administrator in writing 30 days prior to gap measurements of the EFR tank.	Maintain copies of notifications to the Administrator on site for at least 5 years from the date of the notification.
1435			

Emission Source ID TK-8005  
Source Description Storage Tank

Process Unit  
Product Loading-96

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1436	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep records as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  1437	40 CFR 63.654(i)(1)(i-iii) & 63.123(b)	Maintain a record of reports submitted in accordance with 40 CFR 63.654(e) including the Notification of Compliance Status, Periodic Reports, & other reports for at least 5 yrs from the date of report.	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
MACT Subpart CC - Tanks  1438	40 CFR 63.654(i)(1)(i-iii) & 63.123(d)	EFR tanks complying w/40 CFR 63.119(c), maintain records (5 yrs from measure date) describing results of ea. gap measurement including measurement date, raw data, & calculations.	Maintain records of each gap measurement on site for at least 5 years following date of measurement.
MACT Subpart CC - Tanks  1439	40 CFR 63.654(i)(1)(i-iii) & 63.123(g)	If an extension is used in emptying a tank in accordance with 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8), maintain the documentation outlined in those sections.	Maintain required documentation on site for at least 5 years.



Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1440	40 CFR 63.646(a) & 63.119 (c)(1)(i-ii)	Equip the EFR with a closure device consisting of 2 seals, one above the other. Primary seal shall be metallic shoe seal or liquid-mounted seal.	Maintain records that demonstrate the external floating roof is equipped with a closure consisting of two seals, a primary mechanical shoe seal or liquid mounted seal and a rim-mounted secondary seal.
MACT Subpart CC - Tanks  1441	40 CFR 63.646(a) & 63.119(a)(1)	Ensure that the tank is equipped w/either a fixed roof & IFR, an EFR, an EFR converted to an IFR, CVS w/control device, or equivalent system as provided in 40 CFR 63.121.	Maintain records that demonstrate the tank is equipped with an external floating roof.
MACT Subpart CC - Tanks  1442	40 CFR 63.646(a) & 63.119(a)(2)	Ensure that the TVP of the stored liquid remains <76.6kPa (11.1psia) or equip the vessel with CVS and control device and comply with the associated requirements.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP >11.1psia.
MACT Subpart CC - Tanks  1443	40 CFR 63.646(a) & 63.119(c)(1)(iii)	Ensure that the primary and secondary seals completely cover the annular space between the EFR and vessel wall in a continuous fashion.	Maintain records that demonstrate seals completely cover the annular space between the roof and vessel wall in a continuous fashion. Inspect seals at a frequency specified in the referenced citation.
MACT Subpart CC - Tanks  1444	40 CFR 63.646(a) & 63.119(c)(1)(iv)	Ensure that the EFR is equipped with a secondary seal.	Maintain records that demonstrate the tank is equipped with a rim-mounted secondary seal.
MACT Subpart CC - Tanks  1445	40 CFR 63.646(a) & 63.119(c)(3)(i-iii)	Ensure EFR is floating on liquid surface at all times except when supported by leg supports during initial fill, after emptied and degassed, and when emptied before being subsequently refilled.	Maintain records that verify that the liquid is at a level which ensures the roof is floating on the liquid surface at all times.
MACT Subpart CC - Tanks  1446	40 CFR 63.646(a) & 63.119(c)(4)	Ensure that when the EFR is resting on leg supports that the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as possible.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.

Emission Source ID TK-8007  
Source Description Storage Tank

Process Unit  
Alkylation Unit-15

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks 1447	40 CFR 63.646(a) & 63.120(b)(1)(ii)	Closure consists of two seals, a metallic shoe primary seal and a rim-mounted secondary seal.	Maintain records to demonstrate compliance as specified in the referenced citation.
MACT Subpart CC - Tanks 1448	40 CFR 63.646(a) & 63.120(b)(1)(iii)	For EFR tanks with double seals, measure gap between the vessel wall and the secondary seal.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
MACT Subpart CC - Tanks 1449	40 CFR 63.646(a) & 63.120(b)(1)(iv)	If vessel ceases to store organic HAP or TVP falls below threshold for 1 year or >, seal gap measurements shall be performed within 90 days of refilling EFR tank with HAP.	Maintain a log of tank service. Perform gap measurements within 90 days of any tank that is out-of-service for 1 year or more.
MACT Subpart CC - Tanks 1450	40 CFR 63.646(a) & 63.120(b)(10)	Visually inspect the EFR, seals, and fittings each time the vessel is emptied and degassed.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of the inspection on site for at least 5 years.
MACT Subpart CC - Tanks 1451	40 CFR 63.646(a) & 63.120(b)(10)(ii-iii)	Notify Administrator in writing 30 days prior to filling or refilling each emptied/degassed EFR tank. If unplanned inspection, make notification at least 7 days prior by phone and follow-up in writing.	Maintain copies of notifications to the Administrator on site for at least 5 years from the date of the notification.
MACT Subpart CC - Tanks 1452	40 CFR 63.646(a) & 63.120(b)(2)(i-iii)	Ensure that all gap measurements on the EFR are made according to the guidelines outlined in 40 CFR 63.120(b)(2)(i-iii).	Calculate gap areas using the method and guidelines in the specified citation. Retain these calculations for at least 5 years following the date of measurement.
MACT Subpart CC - Tanks 1453	40 CFR 63.646(a) & 63.120(b)(3)	Ensure that the accumulated area of gaps between EFR tank wall and primary seal does not exceed 212 sq. cm/m diameter & width of any gap does not exceed 3.18 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(4)	Ensure that the accumulated area of gaps between EFR tank wall and secondary seal does not exceed 21.2 sq. cm/m diameter and width of any gap does not exceed 1.27 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
1454			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(5)(i)	If metallic shoe seal is in use ensure one end of the seal extends into the stored liquid and other end extends a minimum vertical distance of 61 cm above the stored liquid surface.	Maintain records that demonstrate the mechanical shoe seal is designed to have one end extend into the stored liquid and the other end extend a minimum vertical distance of 61cm above the stored liquid surface.
1455			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(5)(ii)&(b)(6)(i)	Ensure that there are no holes, tears, or other openings in the shoe, seal fabric, or seal envelope of the primary seal or secondary seal of the EFR.	Verify the condition of the primary and/or secondary seals during inspections. Maintain a record of the inspections.
1456			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(6)(i)	Ensure that the secondary seal is installed above the primary seal so that it completely covers the space between the roof edge and the EFR tank wall.	Verify the condition of the primary and/or secondary seals during inspections. Maintain a record of the inspections.
1457			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(7)(i-ii)	If EFR is unsafe to perform seal gap measurements, measure gaps or inspect no later than 30 day after the determination or empty tank within 45 days or request an extension.	Measure gaps within 30 days or when tank is emptied or when an extension is requested. Maintain records of these actions on site for at least 5 years.
1458			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(8)	Within 45 days, repair conditions not meeting requirements (gap exceedances, holes in seals/fabric, seals not installed) or remove EFR tank from service or request extension.	Maintain records that demonstrate repairs are made in a timely manner and completed within 45 days, or that the tank is empty, or that an extension is requested. Maintain a record of the request on site for 5 years.
1459			
MACT Subpart CC - Tanks	40 CFR 63.646(a)(e)&63.120(b)(10)(i)	For existing sources, repair defects found during inspection of emptied/degassed EFR tank before refilling w/HAP. Defects include holes, tears, openings in seal fabric, or slotted membranes w/ >10% open area (after MACT compliance date).	Maintain records that demonstrate defects detected during inspections are repaired prior to refilling with a volatile organic liquid.
1460			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1461	40 CFR 63.646(b)(1)	Document any data, assumptions, and procedures used to group classification for storage vessels subject to this Subpart.	Maintain data, assumptions and calculations for determination of group status as long as status remains unchanged.
MACT Subpart CC - Tanks  1462	40 CFR 63.646(f)(1)	Ensure that if a cover or lid is installed on an opening in a floating roof, that it remains closed except when it must be open for access.	Maintain records that demonstrate openings were designed and built with gasketed covers or lids. Perform visual inspections of the covers to ensure closure.
MACT Subpart CC - Tanks  1463	40 CFR 63.646(f)(3)	Ensure that the automatic bleeder vents are closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
MACT Subpart CC - Tanks  1464	40 CFR 63.654(f)(1)(i)(A-D)	Ensure that the Notification of Compliance Status report contains information specified in 40 CFR 63.654(f)(1)(i)(A-D).	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
MACT Subpart CC - Tanks  1465	40 CFR 63.654(g)(3)(i)(A-D)	For seal gap measurements of EFR tanks in which the gap limits were exceeded, submit with the Periodic Report, the information specified in 40 CFR 63.654(g)(3)(i)(A-D).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
MACT Subpart CC - Tanks  1466	40 CFR 63.654(g)(3)(ii)	If an extension was used to repair a failure or empty a tank, include in the Periodic Report the information specified in 40 CFR 63.654(g)(3)(ii).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
MACT Subpart CC - Tanks  1467	40 CFR 63.654(g)(3)(iii)(B)	For inspections of emptied and degassed EFR tanks, include in the next Periodic Report the information specified in 40 CFR 63.654(g)(3)(iii)(B) of any failures detected.	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
MACT Subpart CC - Tanks  1468	40 CFR 63.654(h)(2)(ii) & 63.120(b)(9)	Notify the Administrator in writing 30 days prior to gap measurements of the EFR tank.	Maintain copies of notifications to the Administrator on site for at least 5 years from the date of the notification.

Emission Source ID TK-8007  
Source Description Storage Tank

Process Unit  
Alkylation Unit-15

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1469	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep records as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  1470	40 CFR 63.654(i)(1)(i-iii) & 63.123(b)	Maintain a record of reports submitted in accordance with 40 CFR 63.654(e) including the Notification of Compliance Status, Periodic Reports, & other reports for at least 5 yrs from the date of report.	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
MACT Subpart CC - Tanks  1471	40 CFR 63.654(i)(1)(i-iii) & 63.123(d)	EFR tanks complying w/40 CFR 63.119(c), maintain records (5 yrs from measure date) describing results of ea. gap measurement including measurement date, raw data, & calculations.	Maintain records of each gap measurement on site for at least 5 years following date of measurement.
MACT Subpart CC - Tanks  1472	40 CFR 63.654(i)(1)(i-iii) & 63.123(g)	If an extension is used in emptying a tank in accordance with 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8), maintain the documentation outlined in those sections.	Maintain required documentation on site for at least 5 years.

Process Unit  
Platformer Unit-10

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1473	40 CFR 63.646(a) & 63.119(a)(1)	Ensure that the tank is equipped with either a fixed roof and IFR, an EFR, an EFR converted to an IFR, CVS with control device, or equivalent system as provided in 40 CFR 63.121.	Maintain records that demonstrate the tank is equipped with an external floating roof.
MACT Subpart CC - Tanks  1474	40 CFR 63.646(a) & 63.119(a)(2)	Ensure that the TVP of the stored liquid remains <76.6kPa (11.1psia) or equip the vessel with CVS and control device and comply with the associated requirements.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP > 11.1 psia.
MACT Subpart CC - Tanks  1475	40 CFR 63.646(a) & 63.119(c)(1)(iii)	Ensure that primary and secondary seals completely cover the annular space between the EFR and vessel wall in a continuous fashion.	Maintain records that demonstrate seals completely cover the annular space between the roof and vessel wall in a continuous fashion. Inspect seals at a frequency specified in the referenced citation.
MACT Subpart CC - Tanks  1476	40 CFR 63.646(a) & 63.119(c)(1)(i-ii)	Equip the EFR with a closure device consisting of two seals, one above the other. Primary seal shall be metallic shoe seal or liquid-mounted seal.	Maintain records that demonstrate the external floating roof is equipped with a closure consisting of two seals, a primary mechanical shoe seal or a liquid mounted seal and a rim-mounted secondary seal.
MACT Subpart CC - Tanks  1477	40 CFR 63.646(a) & 63.119(c)(1)(iv)	Ensure that the EFR is equipped with a secondary seal.	Maintain records that demonstrate the tank is equipped with a rim-mounted secondary seal.
MACT Subpart CC - Tanks  1478	40 CFR 63.646(a) & 63.119(c)(3)(i-iii)	Ensure EFR is floating on liquid surface at all times except when supported by leg supports during initial fill, after emptied and degassed, and when emptied before being subsequently refilled.	Maintain records to verify that the liquid is at a level which ensures the roof is floating on the liquid surface at all times except when supported by leg supports when emptied and degassed and during filling.
MACT Subpart CC - Tanks  1479	40 CFR 63.646(a) & 63.119(c)(4)	Ensure that when the EFR is resting on leg supports that the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as possible.	Follow standard operating procedures to empty or refill the vessel as soon as possible, in a safe and effective manner.

Emission Source ID TK-8009  
Source Description Storage Tank

Process Unit  
Platformer Unit-10

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(1)(i)	For EFR tanks with double seals, measure the gaps between the vessel wall and primary seal during the hydrostatic testing of the tank.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
1480			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(1)(iv)	If vessel ceases to store organic HAP or TVP falls below threshold for 1 year or >, seal gap measurements shall be performed within 90 days of refilling EFR tank with HAP.	Maintain a log of tank service. Gap measurements are performed within 90 days for any tank that is out-of-service for 1 year or more.
1481			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(10)	Visually inspect the EFR, seals, and fittings each time the vessel is emptied and degassed.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.
1482			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(10)(i)	For existing sources, repair defects found during inspection of emptied & degassed EFR tank before refilling with HAP. Defects include: holes, tears, openings in seal or seal fabric.	Maintain records that demonstrate defects detected during inspections are repaired prior to refilling with a volatile organic liquid.
1483			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(10)(ii-iii)	Notify Administrator in writing 30 days prior to filling or refilling each emptied/degassed EFR tank. If unplanned inspection, make notification at least 7 days prior by phone and follow-up in writing.	Maintain copies of notifications to the Administrator on site for at least 5 years from date of notification.
1484			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(2)(i-iii)	Ensure that all gap measurements on the EFR are made according to the guidelines outlined in 40 CFR 63.120(b)(2)(i-iii).	Calculate gap areas using the method and guidelines in the specified citation. Retain these calculations for at least 5 years following the date of measurement.
1485			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(3)	Ensure that the accumulated area of gaps between EFR tank wall and primary seal does not exceed 212 sq. cm/m diameter and width of any gap does not exceed 3.81 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
1486			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(4)	Ensure that the accumulated area of gaps between EFR tank wall and secondary seal does not exceed 21.2 sq. cm/m diameter and width of any gap does not exceed 1.27 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
1487			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(5)(i)	If metallic shoe seal is in use, ensure one end of the seal extends into the stored liquid and other end extends a minimum vertical distance of 61 cm above the stored liquid surface.	Maintain records that demonstrate the mechanical shoe seal is designed to have one end extend into the stored liquid and the other end extend a minimum vertical distance of 61 cm above the stored liquid surface.
1488			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(5)(ii) & (b)(6)(ii)	Ensure that there are no holes, tears, or other openings in the shoe, seal fabric, or seal envelope of the primary seal or secondary seal of the EFR.	Verify the condition of the primary and/or secondary seals during routine inspections. Maintain a record of the inspections.
1489			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(6)(i)	Ensure that the secondary seal is installed above the primary seal so that it completely covers the space between the roof edge and the EFR tank wall.	Verify the condition of the primary and/or secondary seals during routine inspections. Maintain a record of the inspections.
1490			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(7)(i-ii)	If unsafe to perform seal gap measurements because the EFR is structurally unsound, measure gaps or inspect no later than 30 days after determination of roof unsafe or empty tank within 45 days or request extension.	Measure gaps within 30 days (records are maintained on site for measurement) or tank is emptied. If extension is requested, a copy of the request is maintained on site for at least 5 years.
1491			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(8)	Within 45 days, repair any conditions that do not meet requirements (such as gap width/area exceedances, holes in seal/seal fabric, seals not installed as required) or remove EFR tank from service or request extension.	Maintain records to demonstrate that repairs are made in a timely manner and completed within 45 days, or that the tank is empty unless an extension is requested. Maintain a copy of the extension request on site for 5 years.
1492			
MACT Subpart CC - Tanks	40 CFR 63.646(b)(1)	Document any data, assumptions, and procedures used to determine group classification for the storage vessels subject to this Subpart.	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.
1493			



Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(f)(1)	Ensure that if a cover or lid is installed on an opening in a floating roof, that it remains closed except when it must be open for access.	Maintain records that demonstrate each opening was designed and built with gasketed covers or lids. Perform visual inspection of the cover during required annual roof seal inspections to ensure all covers and lids are closed.
1494			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(3)	Ensure that the automatic bleeder vents are closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports..	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
1495			
MACT Subpart CC - Tanks	40 CFR 63.654(f)(1)(i)(A-D)	Ensure that the Notification of Compliance Status report contains information specified in 40 CFR 63.654(f)(1)(i)(A-D) to include identification of each vessel subject to MACT, group classification, and method of compliance.	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
1496			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(i)(A-D)	For the seal gap measurements of EFR tanks in which the gap limits were exceeded, submit with the Periodic Report, the information specified in 40 CFR 654(g)(3)(i)(A-D).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1497			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(ii)	If an extension was used to repair a failure or empty a tank, include in the next Periodic Report the information specified in 40 CFR 654(g)(3)(ii).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1498			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(iii)(B)	For inspections of emptied & degassed EFR tanks, include in the next Periodic Report the information specified in 40 CFR 654(g)(3)(iii)(B) of any failures detected as defined in 40 CFR 654(g)(3)(iii)(A).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1499			
MACT Subpart CC - Tanks	40 CFR 63.654(h)(2)(ii) & 63.120(b)(9)	Notify the Administrator in writing 30 days prior to gap measurements of the EFR tank.	Maintain copies of notifications to the Administrator on site for at least 5 years from date of notification.
1500			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
1501			

Emission Source ID TK-8015  
Source Description Storage Tank

Process Unit  
Coker-12

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1650	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  1651	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.

Emission Source ID TK-8009  
Source Description Storage Tank

Process Unit  
Platformer Unit-10

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1502	40 CFR 63.654(i)(1)(i-iii) & 63.123(b)	Maintain a record of all reports submitted in accordance with 40 CFR 63.654(e) including the Notification of Compliance Status, Periodic Reports, and other reports for at least 5 yrs from date of report.	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
MACT Subpart CC - Tanks  1503	40 CFR 63.654(i)(1)(i-iii) & 63.123(d)	For EFR tanks complying with 40 CFR 63.119(c), maintain records (for at least 5 yrs from date of measurement) describing the results of each seal gap measurement made including date of measurement, raw data, and calculations.	Maintain records of each gap measurement on site for at least 5 years following date of measurement.
MACT Subpart CC - Tanks  1504	40 CFR 63.654(i)(1)(i-iii) & 63.123(g)	If an extension is used in emptying a tank in accordance with 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8), maintain the documentation outlined in 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8).	Maintain required documentation on site for at least 5 years.

Process Unit  
No 1 Crude Unit-03

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(1)(i-ii)	Equip the EFR with a closure device consisting of 2 seals, one above the other. Primary seal shall be metallic shoe seal or liquid-mounted seal.	Maintain records that demonstrate the external floating roof is equipped with a closure consisting of two seals, a primary mechanical shoe seal or liquid mounted seal and a rim-mounted secondary seal.
1505			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(a)(1)	Ensure that the tank is equipped w/either a fixed roof & IFR, an EFR, an EFR converted to an IFR, CVS w/control device, or equivalent system as provided in 40 CFR 63.121.	Maintain records that demonstrate the tank is equipped with an external floating roof.
1506			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(a)(2)	Ensure that the TVP of the stored liquid remains <76.6kPa (11.1psia) or equip the vessel with CVS and control device and comply with the associated requirements.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP >11.1psia.
1507			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(1)(iii)	Ensure that the primary and secondary seals completely cover the annular space between the EFR and vessel wall in a continuous fashion.	Maintain records that demonstrate seals completely cover the annular space between the roof and vessel wall in a continuous fashion. Inspect seals at a frequency specified in the referenced citation.
1508			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(1)(iv)	Ensure that the EFR is equipped with a secondary seal.	Maintain records that demonstrate the tank is equipped with a rim-mounted secondary seal.
1509			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(3)(i-iii)	Ensure EFR is floating on liquid surface at all times except when supported by leg supports during initial fill, after emptied and degassed, and when emptied before being subsequently refilled.	Maintain records that verify that the liquid is at a level which ensures the roof is floating on the liquid surface at all times.
1510			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(4)	Ensure that when the EFR is resting on leg supports that the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as possible.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
1511			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks 1512	40 CFR 63.646(a) & 63.120(b)(1)(ii)	Closure consists of two seals, a metallic shoe primary seal and a rim-mounted secondary seal.	Maintain records to demonstrate compliance as specified in the referenced citation.
MACT Subpart CC - Tanks 1513	40 CFR 63.646(a) & 63.120(b)(1)(iii)	For EFR tanks with double seals, measure gap between the vessel wall and the secondary seal.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
MACT Subpart CC - Tanks 1514	40 CFR 63.646(a) & 63.120(b)(1)(iv)	If vessel ceases to store organic HAP or TVP falls below threshold for 1 year or >, seal gap measurements shall be performed within 90 days of refilling EFR tank with HAP.	Maintain a log of tank service. Perform gap measurements within 90 days of any tank that is out-of-service for 1 year or more.
MACT Subpart CC - Tanks 1515	40 CFR 63.646(a) & 63.120(b)(10)	Visually inspect the EFR, seals, and fittings each time the vessel is emptied and degassed.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of the inspection on site for at least 5 years.
MACT Subpart CC - Tanks 1516	40 CFR 63.646(a) & 63.120(b)(10)(ii-iii)	Notify Administrator in writing 30 days prior to filling or refilling each emptied/degassed EFR tank. If unplanned inspection, make notification at least 7 days prior by phone and follow-up in writing.	Maintain copies of notifications to the Administrator on site for at least 5 years from the date of the notification.
MACT Subpart CC - Tanks 1517	40 CFR 63.646(a) & 63.120(b)(2)(i-iii)	Ensure that all gap measurements on the EFR are made according to the guidelines outlined in 40 CFR 63.120(b)(2)(i-iii).	Calculate gap areas using the method and guidelines in the specified citation. Retain these calculations for at least 5 years following the date of measurement.
MACT Subpart CC - Tanks 1518	40 CFR 63.646(a) & 63.120(b)(3)	Ensure that the accumulated area of gaps between EFR tank wall and primary seal does not exceed 212 sq. cm/m diameter & width of any gap does not exceed 3.18 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(4)	Ensure that the accumulated area of gaps between EFR tank wall and secondary seal does not exceed 21.2 sq. cm/m diameter and width of any gap does not exceed 1.27 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
1519			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(5)(i)	If metallic shoe seal is in use ensure one end of the seal extends into the stored liquid and other end extends a minimum vertical distance of 61 cm above the stored liquid surface.	Maintain records that demonstrate the mechanical shoe seal is designed to have one end extend into the stored liquid and the other end extend a minimum vertical distance of 61cm above the stored liquid surface.
1520			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(5)(ii)&(b)(6)(i)	Ensure that there are no holes, tears, or other openings in the shoe, seal fabric, or seal envelope of the primary seal or secondary seal of the EFR.	Verify the condition of the primary and/or secondary seals during inspections. Maintain a record of the inspections.
1521			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(6)(i)	Ensure that the secondary seal is installed above the primary seal so that it completely covers the space between the roof edge and the EFR tank wall.	Verify the condition of the primary and/or secondary seals during inspections. Maintain a record of the inspections.
1522			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(7)(i-ii)	If EFR is unsafe to perform seal gap measurements, measure gaps or inspect no later than 30 day after the determination or empty tank within 45 days or request an extension.	Measure gaps within 30 days or when tank is emptied or when an extension is requested. Maintain records of these actions on site for at least 5 years.
1523			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(8)	Within 45 days, repair conditions not meeting requirements (gap exceedances, holes in seals/fabric, seals not installed) or remove EFR tank from service or request extension.	Maintain records that demonstrate repairs are made in a timely manner and completed within 45 days, or that the tank is empty, or that an extension is requested. Maintain a record of the request on site for 5 years.
1524			
MACT Subpart CC - Tanks	40 CFR 63.646(a)(e)&63.120(b)(10)(i)	For existing sources, repair defects found during inspection of emptied/degassed EFR tank before refilling w/HAP. Defects include holes, tears, openings in seal fabric, or slotted membranes w/ >10% open area (after MACT compliance date).	Maintain records that demonstrate defects detected during inspections are repaired prior to refilling with a volatile organic liquid.
1525			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(b)(1)	Document any data, assumptions, and procedures used to group classification for storage vessels subject to this Subpart.	Maintain data, assumptions and calculations for determination of group status as long as status remains unchanged.
1526			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(1)	Ensure that if a cover or lid is installed on an opening in a floating roof, that it remains closed except when it must be open for access.	Maintain records that demonstrate openings were designed and built with gasketed covers or lids. Perform visual inspections of the covers to ensure closure.
1527			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(2)	Ensure that the rim-space vents are set to open when the floating roof is not floating or when the pressure beneath the rim-seal exceeds the manufacturer's recommended setting.	Maintain records that demonstrate rim-space vents are designed to open only when the floating roof is setting on its legs or when the pressure beneath the seal actually exceeds the manufacturer's recommended setting.
1528			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(3)	Ensure that the automatic bleeder vents are closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
1529			
MACT Subpart CC - Tanks	40 CFR 63.654(f)(1)(i)(A-D)	Ensure that the Notification of Compliance Status report contains information specified in 40 CFR 63.654(f)(1)(i)(A-D).	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
1530			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(i)(A-D)	For seal gap measurements of EFR tanks in which the gap limits were exceeded, submit with the Periodic Report, the information specified in 40 CFR 63.654(g)(3)(i)(A-D).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1531			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(ii)	If an extension was used to repair a failure or empty a tank, include in the Periodic Report the information specified in 40 CFR 63.654(g)(3)(ii).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1532			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(iii)(B)	For inspections of emptied and degassed EFR tanks, include in the next Periodic Report the information specified in 40 CFR 63.654(g)(3)(iii)(B) of any failures detected.	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1533			

Emission Source ID TK-8010  
Source Description Storage Tank

Process Unit  
No 1 Crude Unit-03

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.654(h)(2)(ii) & 63.120(b)(9)	Notify the Administrator in writing 30 days prior to gap measurements of the EFR tank.	Maintain copies of notifications to the Administrator on site for at least 5 years from the date of the notification.
1534			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep records as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
1535			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1)(i-iii) & 63.123(b)	Maintain a record of reports submitted in accordance with 40 CFR 63.654(e) including the Notification of Compliance Status, Periodic Reports, & other reports for at least 5 yrs from the date of report.	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
1536			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1)(i-iii) & 63.123(d)	EFR tanks complying w/40 CFR 63.119(c), maintain records (5 yrs from measure date) describing results of ea. gap measurement including measurement date, raw data, & calculations.	Maintain records of each gap measurement on site for at least 5 years following date of measurement.
1537			
MACT Subpart CC - Tanks	40 CFR 63.654(i)(1)(i-iii) & 63.123(g)	If an extension is used in emptying a tank in accordance with 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8), maintain the documentation outlined in those sections.	Maintain required documentation on site for at least 5 years.
1538			



Emission Source ID TK-8011  
Source Description Storage Tank

Process Unit  
Coker-12

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1539	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  1540	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KAR-HC Emissions	KAR 28-19-23(A)(1)	Ensure that the tank is equipped with a floating roof such as a pontoon type, double deck type, or internal floating cover and that the liquid stored has a True Vapor Pressure (TVP) of <13.0 psia.	Maintain records that demonstrate the tank is equipped with an external floating roof and stores liquid with a TVP <13.0 psia.
1541			
KAR-HC Emissions	KAR 28-19-23(A)(1)	Ensure that floating roof rests on the surface of the liquid contents and is equipped with a closure seal or seals to close the space between the roof edge and tank wall.	Maintain records that demonstrate the external floating roof closure device consists of 2 seals, a primary mechanical shoe seal or liquid mounted seal and a rim-mounted secondary seal. Maintain records that verify the liquid level ensures that the roof is floating at all times.
1542			
KAR-HC Emissions	KAR 28-19-23(A)(1)	Ensure that all tank gauging or sampling devices are gas-tight except when tank gauging or sampling is taking place.	Maintain records that demonstrate tank gauging equipment and sampling devices are designed to be gas-tight except when gauging and sampling is taking place.
1543			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(a)(1)	Ensure that the tank is equipped with either a fixed roof and IFR, an EFR, an EFR converted to an IFR, CVS with control device, or equivalent system as provided in 40 CFR 63.121.	Maintain records that demonstrate the tank is equipped with an external floating roof.
1544			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(a)(2)	Ensure that the TVP of the stored liquid remains <76.6kPa (11.1psia) or equip the vessel with CVS and control device and comply with the associated requirements.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP > 11.1 psia.
1545			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(1)(iii)	Ensure that primary and secondary seals completely cover the annular space between the EFR and vessel wall in a continuous fashion.	Maintain records that demonstrate seals completely cover the annular space between the roof and vessel wall in a continuous fashion. Inspect seals at a frequency specified in the referenced citation.
1546			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(1)(i-ii)	Equip the EFR with a closure device consisting of two seals, one above the other. Primary seal shall be metallic shoe seal or liquid-mounted seal.	Maintain records that demonstrate the external floating roof is equipped with a closure consisting of two seals, a primary mechanical shoe seal or a liquid mounted seal and a rim-mounted secondary seal.
1547			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks 1548	40 CFR 63.646(a) & 63.119(c)(1)(iv)	Ensure that the EFR is equipped with a secondary seal.	Maintain records that demonstrate the tank is equipped with a rim-mounted secondary seal.
MACT Subpart CC - Tanks 1549	40 CFR 63.646(a) & 63.119(c)(3)(i-iii)	Ensure EFR is floating on liquid surface at all times except when supported by leg supports during initial fill, after emptied and degassed, and when emptied before being subsequently refilled.	Maintain records to verify that the liquid is at a level which ensures the roof is floating on the liquid surface at all times except when supported by leg supports when emptied and degassed and during filling.
MACT Subpart CC - Tanks 1550	40 CFR 63.646(a) & 63.119(c)(4)	Ensure that when the EFR is resting on leg supports that the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as possible.	Follow standard operating procedures to empty or refill the vessel as soon as possible, in a safe and effective manner.
MACT Subpart CC - Tanks 1551	40 CFR 63.646(a) & 63.120(b)(1)(i)	For EFR tanks with double seals, measure the gaps between the vessel wall and primary seal during the hydrostatic testing of the tank.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
MACT Subpart CC - Tanks 1552	40 CFR 63.646(a) & 63.120(b)(1)(iii)	For EFR tanks with double seals, measure the gaps between the vessel wall and secondary seal.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
MACT Subpart CC - Tanks 1553	40 CFR 63.646(a) & 63.120(b)(1)(iv)	If vessel ceases to store organic HAP or TVP falls below threshold for 1 year or >, seal gap measurements shall be performed within 90 days of refilling EFR tank with HAP.	Maintain a log of tank service. Gap measurements are performed within 90 days for any tank that is out-of-service for 1 year or more.
MACT Subpart CC - Tanks 1554	40 CFR 63.646(a) & 63.120(b)(10)	Visually inspect the EFR, seals, and fittings each time the vessel is emptied and degassed.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(10)(i)	For existing sources, repair defects found during inspection of emptied & degassed EFR tank before refilling with HAP. Defects include: holes, tears, openings in seal or seal fabric.	Maintain records that demonstrate defects detected during inspections are repaired prior to refilling with a volatile organic liquid.
1555			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(10)(i-iii)	Notify Administrator in writing 30 days prior to filling or refilling each emptied/degassed EFR tank. If unplanned inspection, make notification at least 7 days prior by phone and follow-up in writing.	Maintain copies of notifications to the Administrator on site for at least 5 years from date of notification.
1556			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(2)(i-iii)	Ensure that all gap measurements on the EFR are made according to the guidelines outlined in 40 CFR 63.120(b)(2)(i-iii).	Calculate gap areas using the method and guidelines in the specified citation. Retain these calculations for at least 5 years following the date of measurement.
1557			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(3)	Ensure that the accumulated area of gaps between EFR tank wall and primary seal does not exceed 212 sq. cm/m diameter and width of any gap does not exceed 3.81 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
1558			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(4)	Ensure that the accumulated area of gaps between EFR tank wall and secondary seal does not exceed 21.2 sq. cm/m diameter and width of any gap does not exceed 1.27 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
1559			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(5)(i)	If metallic shoe seal is in use, ensure one end of the seal extends into the stored liquid and other end extends a minimum vertical distance of 61 cm above the stored liquid surface.	Maintain records that demonstrate the mechanical shoe seal is designed to have one end extend into the stored liquid and the other end extend a minimum vertical distance of 61 cm above the stored liquid surface.
1560			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(5)(ii) & (b)(6)(ii)	Ensure that there are no holes, tears, or other openings in the shoe, seal fabric, or seal envelope of the primary seal or secondary seal of the EFR.	Verify the condition of the primary and/or secondary seals during routine inspections. Maintain a record of the inspections.
1561			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(6)(i)	Ensure that the secondary seal is installed above the primary seal so that it completely covers the space between the roof edge and the EFR tank wall.	Verify the condition of the primary and/or secondary seals during routine inspections. Maintain a record of the inspections.
1562			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(7)(i-ii)	If unsafe to perform seal gap measurements because the EFR is structurally unsound, measure gaps or inspect no later than 30 days after determination of roof unsafe or empty tank within 45 days or request extension.	Measure gaps within 30 days (records are maintained on site for measurement) or tank is emptied. If extension is requested, a copy of the request is maintained on site for at least 5 years.
1563			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(8)	Within 45 days, repair any conditions that do not meet requirements (such as gap width/area exceedances, holes in seal/seal fabric, seals not installed as required) or remove EFR tank from service or request extension.	Maintain records to demonstrate that repairs are made in a timely manner and completed within 45 days, or that the tank is empty unless an extension is requested. Maintain a copy of the extension request on site for 5 years.
1564			
MACT Subpart CC - Tanks	40 CFR 63.646(b)(1)	Document any data, assumptions, and procedures used to determine group classification for the storage vessels subject to this Subpart.	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.
1565			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(1)	Ensure that if a cover or lid is installed on an opening in a floating roof, that it remains closed except when it must be open for access.	Maintain records that demonstrate each opening was designed and built with gasketed covers or lids. Perform visual inspection of the cover during required annual roof seal inspections to ensure all covers and lids are closed.
1566			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(3)	Ensure that the automatic bleeder vents are closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
1567			
MACT Subpart CC - Tanks	40 CFR 63.654(f)(1)(i)(A-D)	Ensure that the Notification of Compliance Status report contains information specified in 40 CFR 63.654(f)(1)(i)(A-D) to include identification of each vessel subject to MACT, group classification, and method of compliance.	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
1568			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1569	40 CFR 63.654(g)(3)(i)(A-D)	For the seal gap measurements of EFR tanks in which the gap limits were exceeded, submit with the Periodic Report, the information specified in 40 CFR 654(g)(3)(i)(A-D).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
MACT Subpart CC - Tanks  1570	40 CFR 63.654(g)(3)(ii)	If an extension was used to repair a failure or empty a tank, include in the next Periodic Report the information specified in 40 CFR 654(g)(3)(ii).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
MACT Subpart CC - Tanks  1571	40 CFR 63.654(g)(3)(iii)(B)	For inspections of emptied & degassed EFR tanks, include in the next Periodic Report the information specified in 40 CFR 654(g)(3)(iii)(B) of any failures detected as defined in 40 CFR 654(g)(3)(iii)(A).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
MACT Subpart CC - Tanks  1572	40 CFR 63.654(h)(2)(ii) & 63.120(b)(9)	Notify the Administrator in writing 30 days prior to gap measurements of the EFR tank.	Maintain copies of notifications to the Administrator on site for at least 5 years from date of notification.
MACT Subpart CC - Tanks  1573	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  1574	40 CFR 63.654(i)(1)(i-iii) & 63.123(b)	Maintain a record of all reports submitted in accordance with 40 CFR 63.654(e) including the Notification of Compliance Status, Periodic Reports, and other reports for at least 5 yrs from date of report.	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
MACT Subpart CC - Tanks  1575	40 CFR 63.654(i)(1)(i-iii) & 63.123(d)	For EFR tanks complying with 40 CFR 63.119(c), maintain records (for at least 5 yrs from date of measurement) describing the results of each seal gap measurement made including date of measurement, raw data, and calculations.	Maintain records of each gap measurement on site for at least 5 years following date of measurement.
MACT Subpart CC - Tanks  1576	40 CFR 63.654(i)(1)(i-iii) & 63.123(g)	If an extension is used in emptying a tank in accordance with 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8), maintain the documentation outlined in 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8).	Maintain required documentation on site for at least 5 years.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KAR-HC Emissions  1577	KAR 28-19-23(A)(1)	Ensure that all tank gauging or sampling devices are gas-tight except when tank gauging or sampling is taking place.	Maintain records that demonstrate tank gauging equipment and sampling devices are designed to be gas-tight except when gauging and sampling is taking place.
KAR-HC Emissions  1578	KAR 28-19-23(A)(1)	Ensure that floating roof rests on the surface of the liquid contents and is equipped with a closure seal or seals to close the space between the roof edge and tank wall.	Maintain records that demonstrate the external floating roof closure device consists of 2 seals, a primary mechanical shoe seal or liquid mounted seal and a rim-mounted secondary seal. Maintain records that verify the liquid level ensures that the roof is floating at all times.
KAR-HC Emissions  1579	KAR 28-19-23(A)(1)	Ensure that the tank is equipped with a floating roof such as a pontoon type, double deck type, or internal floating cover and that the liquid stored has a True Vapor Pressure (TVP) of <13.0 psia.	Maintain records that demonstrate the tank is equipped with an external floating roof.
MACT Subpart CC - Tanks  1580	40 CFR 63.646(a) & 63.119 (c)(1)(i-ii)	Equip the EFR with a closure device consisting of 2 seals, one above the other. Primary seal shall be metallic shoe seal or liquid-mounted seal.	Maintain records that demonstrate the external floating roof is equipped with a closure consisting of two seals, a primary mechanical shoe seal or liquid mounted seal and a rim-mounted secondary seal.
MACT Subpart CC - Tanks  1581	40 CFR 63.646(a) & 63.119(a)(1)	Ensure that the tank is equipped w/either a fixed roof & IFR, an EFR, an EFR converted to an IFR, CVS w/control device, or equivalent system as provided in 40 CFR 63.121.	Maintain records that demonstrate the tank is equipped with an external floating roof.
MACT Subpart CC - Tanks  1582	40 CFR 63.646(a) & 63.119(a)(2)	Ensure that the TVP of the stored liquid remains <76.6kPa (11.1psia) or equip the vessel with CVS and control device and comply with the associated requirements.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP >11.1psia.
MACT Subpart CC - Tanks  1583	40 CFR 63.646(a) & 63.119(c)(1)(iii)	Ensure that the primary and secondary seals completely cover the annular space between the EFR and vessel wall in a continuous fashion.	Maintain records that demonstrate seals completely cover the annular space between the roof and vessel wall in a continuous fashion. Inspect seals at a frequency specified in the referenced citation.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks 1584	40 CFR 63.646(a) & 63.119(c)(1)(iv)	Ensure that the EFR is equipped with a secondary seal.	Maintain records that demonstrate the tank is equipped with a rim-mounted secondary seal.
MACT Subpart CC - Tanks 1585	40 CFR 63.646(a) & 63.119(c)(3)(i-iii)	Ensure EFR is floating on liquid surface at all times except when supported by leg supports during initial fill, after emptied and degassed, and when emptied before being subsequently refilled.	Maintain records that verify that the liquid is at a level which ensures the roof is floating on the liquid surface at all times.
MACT Subpart CC - Tanks 1586	40 CFR 63.646(a) & 63.119(c)(4)	Ensure that when the EFR is resting on leg supports that the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as possible.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
MACT Subpart CC - Tanks 1587	40 CFR 63.646(a) & 63.120(b)(1)(ii)	Closure consists of two seals, a metallic shoe primary seal and a rim-mounted secondary seal.	Maintain records to demonstrate compliance as specified in the referenced citation.
MACT Subpart CC - Tanks 1588	40 CFR 63.646(a) & 63.120(b)(1)(iii)	For EFR tanks with double seals, measure gap between the vessel wall and the secondary seal.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
MACT Subpart CC - Tanks 1589	40 CFR 63.646(a) & 63.120(b)(1)(iv)	If vessel ceases to store organic HAP or TVP falls below threshold for 1 year or >, seal gap measurements shall be performed within 90 days of refilling EFR tank with HAP.	Maintain a log of tank service. Perform gap measurements within 90 days of any tank that is out-of-service for 1 year or more.
MACT Subpart CC - Tanks 1590	40 CFR 63.646(a) & 63.120(b)(10)	Visually inspect the EFR, seals, and fittings each time the vessel is emptied and degassed.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of the inspection on site for at least 5 years.



Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1591	40 CFR 63.646(a) & 63.120(b)(10)(ii-iii)	Notify Administrator in writing 30 days prior to filling or refilling each emptied/degassed EFR tank. If unplanned inspection, make notification at least 7 days prior by phone and follow-up in writing.	Maintain copies of notifications to the Administrator on site for at least 5 years from the date of the notification.
MACT Subpart CC - Tanks  1592	40 CFR 63.646(a) & 63.120(b)(2)(i-iii)	Ensure that all gap measurements on the EFR are made according to the guidelines outlined in 40 CFR 63.120(b)(2)(i-iii).	Calculate gap areas using the method and guidelines in the specified citation. Retain these calculations for at least 5 years following the date of measurement.
MACT Subpart CC - Tanks  1593	40 CFR 63.646(a) & 63.120(b)(3)	Ensure that the accumulated area of gaps between EFR tank wall and primary seal does not exceed 212 sq. cm/m diameter & width of any gap does not exceed 3.18 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
MACT Subpart CC - Tanks  1594	40 CFR 63.646(a) & 63.120(b)(4)	Ensure that the accumulated area of gaps between EFR tank wall and secondary seal does not exceed 21.2 sq. cm/m diameter and width of any gap does not exceed 1.27 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
MACT Subpart CC - Tanks  1595	40 CFR 63.646(a) & 63.120(b)(5)(i)	If metallic shoe seal is in use ensure one end of the seal extends into the stored liquid and other end extends a minimum vertical distance of 61 cm above the stored liquid surface.	Maintain records that demonstrate the mechanical shoe seal is designed to have one end extend into the stored liquid and the other end extend a minimum vertical distance of 61cm above the stored liquid surface.
MACT Subpart CC - Tanks  1596	40 CFR 63.646(a) & 63.120(b)(5)(ii)&(b)(6)(i)	Ensure that there are no holes, tears, or other openings in the shoe, seal fabric, or seal envelope of the primary seal or secondary seal of the EFR.	Verify the condition of the primary and/or secondary seals during inspections. Maintain a record of the inspections.
MACT Subpart CC - Tanks  1597	40 CFR 63.646(a) & 63.120(b)(6)(i)	Ensure that the secondary seal is installed above the primary seal so that it completely covers the space between the roof edge and the EFR tank wall.	Verify the condition of the primary and/or secondary seals during inspections. Maintain a record of the inspections.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(7)(i-ii)	If EFR is unsafe to perform seal gap measurements, measure gaps or inspect no later than 30 day after the determination or empty tank within 45 days or request an extension.	Measure gaps within 30 days or when tank is emptied or when an extension is requested. Maintain records of these actions on site for at least 5 years.
1598			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(8)	Within 45 days, repair conditions not meeting requirements (gap exceedances, holes in seals/fabric, seals not installed) or remove EFR tank from service or request extension.	Maintain records that demonstrate repairs are made in a timely manner and completed within 45 days, or that the tank is empty, or that an extension is requested. Maintain a record of the request on site for 5 years.
1599			
MACT Subpart CC - Tanks	40 CFR 63.646(a)(c)&63.120(b)(10)(i)	For existing sources, repair defects found during inspection of emptied/degassed EFR tank before refilling w/HAP. Defects include holes, tears, openings in seal fabric, or slotted membranes w/ >10% open area (after MACT compliance date).	Maintain records that demonstrate defects detected during inspections are repaired prior to refilling with a volatile organic liquid.
1600			
MACT Subpart CC - Tanks	40 CFR 63.646(b)(1)	Document any data, assumptions, and procedures used to group classification for storage vessels subject to this Subpart.	Maintain data, assumptions and calculations for determination of group status as long as status remains unchanged.
1601			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(1)	Ensure that if a cover or lid is installed on an opening in a floating roof, that it remains closed except when it must be open for access.	Maintain records that demonstrate openings were designed and built with gasketed covers or lids. Perform visual inspections of the covers to ensure closure.
1602			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(2)	Ensure that the rim-space vents are set to open when the floating roof is not floating or when the pressure beneath the rim-seal exceeds the manufacturer's recommended setting.	Maintain records that demonstrate rim-space vents are designed to open only when the floating roof is setting on its legs or when the pressure beneath the seal actually exceeds the manufacturer's recommended setting.
1603			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(3)	Ensure that the automatic bleeder vents are closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
1604			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks 1605	40 CFR 63.654(f)(1)(i)(A-D)	Ensure that the Notification of Compliance Status report contains information specified in 40 CFR 63.654(f)(1)(i)(A-D).	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
MACT Subpart CC - Tanks 1606	40 CFR 63.654(g)(3)(i)(A-D)	For seal gap measurements of EFR tanks in which the gap limits were exceeded, submit with the Periodic Report, the information specified in 40 CFR 63.654(g)(3)(i)(A-D).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
MACT Subpart CC - Tanks 1607	40 CFR 63.654(g)(3)(ii)	If an extension was used to repair a failure or empty a tank, include in the Periodic Report the information specified in 40 CFR 63.654(g)(3)(ii).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
MACT Subpart CC - Tanks 1608	40 CFR 63.654(g)(3)(iii)(B)	For inspections of emptied and degassed EFR tanks, include in the next Periodic Report the information specified in 40 CFR 63.654(g)(3)(iii)(B) of any failures detected.	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
MACT Subpart CC - Tanks 1609	40 CFR 63.654(h)(2)(ii) & 63.120(b)(9)	Notify the Administrator in writing 30 days prior to gap measurements of the EFR tank.	Maintain copies of notifications to the Administrator on site for at least 5 years from the date of the notification.
MACT Subpart CC - Tanks 1610	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep records as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks 1611	40 CFR 63.654(i)(1)(i-iii) & 63.123(b)	Maintain a record of reports submitted in accordance with 40 CFR 63.654(e) including the Notification of Compliance Status, Periodic Reports, & other reports for at least 5 yrs from the date of report.	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
MACT Subpart CC - Tanks 1612	40 CFR 63.654(i)(1)(i-iii) & 63.123(d)	EFR tanks complying w/40 CFR 63.119(c), maintain records (5 yrs from measure date) describing results of ea. gap measurement including measurement date, raw data, & calculations.	Maintain records of each gap measurement on site for at least 5 years following date of measurement.

**Emission Source ID** TK-8013  
**Source Description** Storage Tank

**Process Unit**  
Hydrobon Unit-09

**CLASS I OPERATING PERMIT**  
**Source ID No.:** 1250003  
**ATTACHMENT D**

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1613	40 CFR 63.654(i)(1)(i-iii) & 63.123(g)	If an extension is used in emptying a tank in accordance with 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8), maintain the documentation outlined in those sections.	Maintain required documentation on site for at least 5 years.

Emission Source ID TK-8014  
Source Description Storage Tank

Process Unit  
Product Loading-96

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KAR-HC Emissions	KAR 28-19-23(A)(1)	Ensure that floating roof rests on the surface of the liquid contents and is equipped with a closure seal or seals to close the space between the roof edge and tank wall.	Maintain records that demonstrate the external floating roof closure device consists of 2 seals, a primary mechanical shoe seal or liquid mounted seal and a rim-mounted secondary seal. Maintain records that verify the liquid level ensures that the roof is floating at all times.
1614 KAR-HC Emissions	KAR 28-19-23(A)(1)	Ensure that all tank gauging or sampling devices are gas-tight except when tank gauging or sampling is taking place.	Maintain records that demonstrate tank gauging equipment and sampling devices are designed to be gas-tight except when gauging and sampling is taking place.
1615 KAR-HC Emissions	KAR 28-19-23(A)(1)	Ensure that the tank is equipped with a floating roof such as a pontoon type, double deck type, or internal floating cover and that the liquid stored has a True Vapor Pressure (TVP) of <13.0 psia.	Maintain records that demonstrate the tank is equipped with an external floating roof and stores liquid with a TVP <13.0 psia.
1616 MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119 (c)(1)(i-ii)	Equip the EFR with a closure device consisting of 2 seals, one above the other. Primary seal shall be metallic shoe seal or liquid-mounted seal.	Maintain records that demonstrate the external floating roof is equipped with a closure consisting of two seals, a primary mechanical shoe seal or liquid mounted seal and a rim-mounted secondary seal.
1617 MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(a)(1)	Ensure that the tank is equipped w/either a fixed roof & IFR, an EFR, an EFR converted to an IFR, CVS w/control device, or equivalent system as provided in 40 CFR 63.121.	Maintain records that demonstrate the tank is equipped with an external floating roof.
1618 MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(a)(2)	Ensure that the TVP of the stored liquid remains <76.6kPa (11.1psia) or equip the vessel with CVS and control device and comply with the associated requirements.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP >11.1psia.
1619 MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.119(c)(1)(iii)	Ensure that the primary and secondary seals completely cover the annular space between the EFR and vessel wall in a continuous fashion.	Maintain records that demonstrate seals completely cover the annular space between the roof and vessel wall in a continuous fashion. Inspect seals at a frequency specified in the referenced citation.
1620			

Process Unit  
Product Loading-96

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks 1621	40 CFR 63.646(a) & 63.119(c)(1)(iv)	Ensure that the EFR is equipped with a secondary seal.	Maintain records that demonstrate the tank is equipped with a rim-mounted secondary seal.
MACT Subpart CC - Tanks 1622	40 CFR 63.646(a) & 63.119(c)(3)(i-iii)	Ensure EFR is floating on liquid surface at all times except when supported by leg supports during initial fill, after emptied and degassed, and when emptied before being subsequently refilled.	Maintain records that verify that the liquid is at a level which ensures the roof is floating on the liquid surface at all times.
MACT Subpart CC - Tanks 1623	40 CFR 63.646(a) & 63.119(c)(4)	Ensure that when the EFR is resting on leg supports that the process of filling, emptying, or refilling shall be continuous and shall be accomplished as soon as possible.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
MACT Subpart CC - Tanks 1624	40 CFR 63.646(a) & 63.120(b)(1)(ii)	Closure consists of two seals, a metallic shoe primary seal and a rim-mounted secondary seal.	Maintain records to demonstrate compliance as specified in the referenced citation.
MACT Subpart CC - Tanks 1625	40 CFR 63.646(a) & 63.120(b)(1)(iii)	For EFR tanks with double seals, measure gap between the vessel wall and the secondary seal.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
MACT Subpart CC - Tanks 1626	40 CFR 63.646(a) & 63.120(b)(1)(iv)	If vessel ceases to store organic HAP or TVP falls below threshold for 1 year or >, seal gap measurements shall be performed within 90 days of refilling EFR tank with HAP.	Maintain a log of tank service. Perform gap measurements within 90 days of any tank that is out-of-service for 1 year or more.
MACT Subpart CC - Tanks 1627	40 CFR 63.646(a) & 63.120(b)(10)	Visually inspect the EFR, seals, and fittings each time the vessel is emptied and degassed.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of the inspection on site for at least 5 years.

Emission Source ID TK-8014  
Source Description Storage Tank

Process Unit  
Product Loading-96

CLASS 1 OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1628	40 CFR 63.646(a) & 63.120(b)(10)(ii-iii)	Notify Administrator in writing 30 days prior to filling or refilling each emptied/degassed EFR tank. If unplanned inspection, make notification at least 7 days prior by phone and follow-up in writing.	Maintain copies of notifications to the Administrator on site for at least 5 years from the date of the notification.
MACT Subpart CC - Tanks  1629	40 CFR 63.646(a) & 63.120(b)(2)(i-iii)	Ensure that all gap measurements on the EFR are made according to the guidelines outlined in 40 CFR 63.120(b)(2)(i-iii).	Calculate gap areas using the method and guidelines in the specified citation. Retain these calculations for at least 5 years following the date of measurement.
MACT Subpart CC - Tanks  1630	40 CFR 63.646(a) & 63.120(b)(3)	Ensure that the accumulated area of gaps between EFR tank wall and primary seal does not exceed 212 sq. cm/m diameter & width of any gap does not exceed 3.18 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
MACT Subpart CC - Tanks  1631	40 CFR 63.646(a) & 63.120(b)(4)	Ensure that the accumulated area of gaps between EFR tank wall and secondary seal does not exceed 21.2 sq. cm/m diameter and width of any gap does not exceed 1.27 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
MACT Subpart CC - Tanks  1632	40 CFR 63.646(a) & 63.120(b)(5)(i)	If metallic shoe seal is in use ensure one end of the seal extends into the stored liquid and other end extends a minimum vertical distance of 61 cm above the stored liquid surface.	Maintain records that demonstrate the mechanical shoe seal is designed to have one end extend into the stored liquid and the other end extend a minimum vertical distance of 61cm above the stored liquid surface.
MACT Subpart CC - Tanks  1633	40 CFR 63.646(a) & 63.120(b)(5)(ii)&(b)(6)(i i)	Ensure that there are no holes, tears, or other openings in the shoe, seal fabric, or seal envelope of the primary seal or secondary seal of the EFR.	Verify the condition of the primary and/or secondary seals during inspections. Maintain a record of the inspections.
MACT Subpart CC - Tanks  1634	40 CFR 63.646(a) & 63.120(b)(6)(i)	Ensure that the secondary seal is installed above the primary seal so that it completely covers the space between the roof edge and the EFR tank wall.	Verify the condition of the primary and/or secondary seals during inspections. Maintain a record of the inspections.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(7)(i-ii)	If EFR is unsafe to perform seal gap measurements, measure gaps or inspect no later than 30 day after the determination or empty tank within 45 days or request an extension.	Measure gaps within 30 days or when tank is emptied or when an extension is requested. Maintain records of these actions on site for at least 5 years.
1635			
MACT Subpart CC - Tanks	40 CFR 63.646(a) & 63.120(b)(8)	Within 45 days, repair conditions not meeting requirements (gap exceedances, holes in seals/fabric, seals not installed) or remove EFR tank from service or request extension.	Maintain records that demonstrate repairs are made in a timely manner and completed within 45 days, or that the tank is empty, or that an extension is requested. Maintain a record of the request on site for 5 years.
1636			
MACT Subpart CC - Tanks	40 CFR 63.646(a)(e)&63.120(b)(10)(i)	For existing sources, repair defects found during inspection of emptied/degassed EFR tank before refilling w/HAP. Defects include holes, tears, openings in seal fabric, or slotted membranes w/ >10% open area (after MACT compliance date).	Maintain records that demonstrate defects detected during inspections are repaired prior to refilling with a volatile organic liquid.
1637			
MACT Subpart CC - Tanks	40 CFR 63.646(b)(1)	Document any data, assumptions, and procedures used to group classification for storage vessels subject to this Subpart.	Maintain data, assumptions and calculations for determination of group status as long as status remains unchanged.
1638			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(1)	Ensure that if a cover or lid is installed on an opening in a floating roof, that it remains closed except when it must be open for access.	Maintain records that demonstrate openings were designed and built with gasketed covers or lids. Perform visual inspections of the covers to ensure closure.
1639			
MACT Subpart CC - Tanks	40 CFR 63.646(f)(3)	Ensure that the automatic bleeder vents are closed at all times when the roof is floating except when the roof is being floated off or is being landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
1640			
MACT Subpart CC - Tanks	40 CFR 63.654(f)(1)(i)(A-D)	Ensure that the Notification of Compliance Status report contains information specified in 40 CFR 63.654(f)(1)(i)(A-D).	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
1641			
MACT Subpart CC - Tanks	40 CFR 63.654(g)(3)(i)(A-D)	For seal gap measurements of EFR tanks in which the gap limits were exceeded, submit with the Periodic Report, the information specified in 40 CFR 63.654(g)(3)(i)(A-D).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
1642			



Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1643	40 CFR 63.654(g)(3)(ii)	If an extension was used to repair a failure or empty a tank, include in the Periodic Report the information specified in 40 CFR 63.654(g)(3)(ii).	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
MACT Subpart CC - Tanks  1644	40 CFR 63.654(g)(3)(iii)(B)	For inspections of emptied and degassed EFR tanks, include in the next Periodic Report the information specified in 40 CFR 63.654(g)(3)(iii)(B) of any failures detected.	Maintain a copy of all Periodic Reports on site for at least 5 years from date of report.
MACT Subpart CC - Tanks  1645	40 CFR 63.654(h)(2)(ii) & 63.120(b)(9)	Notify the Administrator in writing 30 days prior to gap measurements of the EFR tank.	Maintain copies of notifications to the Administrator on site for at least 5 years from the date of the notification.
MACT Subpart CC - Tanks  1646	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep records as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  1647	40 CFR 63.654(i)(1)(i-iii) & 63.123(b)	Maintain a record of reports submitted in accordance with 40 CFR 63.654(e) including the Notification of Compliance Status, Periodic Reports, & other reports for at least 5 yrs from the date of report.	Maintain a copy of the required reports on site for at least 5 years after the date of the report.
MACT Subpart CC - Tanks  1648	40 CFR 63.654(i)(1)(i-iii) & 63.123(d)	EFR tanks complying w/40 CFR 63.119(c), maintain records (5 yrs from measure date) describing results of ea. gap measurement including measurement date, raw data, & calculations.	Maintain records of each gap measurement on site for at least 5 years following date of measurement.
MACT Subpart CC - Tanks  1649	40 CFR 63.654(i)(1)(i-iii) & 63.123(g)	If an extension is used in emptying a tank in accordance with 40 CFR 63.120(a)(4), (b)(7)(ii), or (b)(8), maintain the documentation outlined in those sections.	Maintain required documentation on site for at least 5 years.

Emission Source ID TK-8016  
Source Description Storage Tank

Process Unit  
No 1 Crude Unit-03

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1652	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  1653	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KAR-HC Emissions  1654	KAR 28-19-23(A)(1)	Ensure that all tank gauging or sampling devices are gas-tight except when tank gauging or sampling is taking place.	Maintain records that demonstrate tank gauging equipment and sampling devices are designed to be gas-tight except when gauging and sampling is taking place.
KAR-HC Emissions  1655	KAR 28-19-23(A)(1)	Ensure that the tank is equipped with a floating roof such as a pontoon type, double deck type, or internal floating cover and that the liquid stored has a True Vapor Pressure (TVP) of <13.0 psia.	Maintain records that demonstrate the tank is equipped with an external floating roof and stores liquid with a TVP <13.0 psia.
KAR-HC Emissions  1656	KAR 28-19-23(A)(1)	Ensure that floating roof rests on the surface of the liquid contents and is equipped with a closure seat or seats to close the space between the roof edge and tank wall.	Maintain records that demonstrate the external floating roof closure device consists of 2 seals, a primary mechanical shoe seat or liquid mounted seal and a rim-mounted secondary seal. Maintain records that verify the liquid level ensures that the roof is floating at all times.
MACT Subpart CC - Tanks  1657	40 CFR 63.640(n)(8)(i)	Storage vessels that are to comply with §60.112b(a)(2) of subpart Kb are exempt from the secondary seal requirements of §60.112b(a)(2)(i)(B) during the gap measurements for the primary seal required by §60.113b(b) of subpart Kb.	Seal gaps will be measured according to the technique specified in the referenced citation. Records of the measurement will be maintained according to regulation to document the event.
MACT Subpart CC - Tanks  1658	40 CFR 63.640(n)(8)(ii)	If it is unsafe to perform gap measurements because the roof appears to be structurally unsound, the owner or operator shall comply with the requirements in either §63.120(b)(7)(i) or §63.120(b)(7)(ii).	Seal gaps will be measured according to the technique specified in the referenced citation. Records of the measurement will be maintained according to regulation to document the event.
MACT Subpart CC - Tanks  1659	40 CFR 63.640(n)(8)(iii)	If a failure is detected during the inspections required by §60.113b(a)(2) or during the seal gap measurements required by §60.113b(b)(1), and the vessel cannot be repaired or emptied within 45 days, utilize upto 30 extra calendar days for repairs.	Seal gaps will be measured according to the technique specified in the referenced citation. Records of the measurement will be maintained according to regulation to document the event.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1660	40 CFR 63.640(n)(8)(iv)	If an extension is utilized in accordance with §63.640(n)(8)(iii), provide the information listed in §60.113b(a)(2) or §60.113b(b)(4)(iii), and describe the nature and date the vessel was emptied or repaired.	Seal gaps will be measured according to the technique specified in the referenced citation. Records of the measurement will be maintained according to regulation to document the event.
MACT Subpart CC - Tanks  1661	40 CFR 63.640(n)(8)(vi)	Rim seal inspection reports specified in §60.115b(b)(2) are not required if none of the measured gaps or calculated gap areas exceed the limitations in §60.113b(b)(4). Documentation of the inspections shall be recorded as specified in §60.115b(b)(3).	Seal gaps will be measured according to the technique specified in the referenced citation. Records of the measurement will be maintained according to regulation to document the event.
NSPS Subpart Kb  1662	40 CFR 60.112b(a)	Equip vessel with fixed roof and IFR, EFR, closed vent system and control device, or a system equivalent to these.	Maintain records that demonstrate the tank is equipped with an external floating roof.
NSPS Subpart Kb  1663	40 CFR 60.112b(a)(2)	Ensure that the EFR is a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof.	Maintain records that demonstrate the external floating roof is a pontoon-type cover that is designed to rest on the surface of the liquid.
NSPS Subpart Kb  1664	40 CFR 60.112b(a)(2)(i)(A-B)	Equip the EFR with a two seal closure device (one above the other) in which the primary seal is either a mechanical shoe seal, or a liquid-mounted seal. Ensure that the seals completely cover the annular space between edge of floating roof and tank wall.	Maintain records that demonstrate closure consists of two seals, a primary mechanical shoe seal and secondary wiper seals designed to cover the annular space between the tank wall and the edge of the floating roof.
NSPS Subpart Kb  1665	40 CFR 60.112b(a)(2)(ii)	Provide a projection below the liquid surface for each opening in a non-contact EFR (except for automatic bleeder vents and rim space vents).	Maintain records that demonstrate each opening, except bleeder vents and rim space vents, in the floating roof is designed to project below the liquid surface.
NSPS Subpart Kb  1666	40 CFR 60.112b(a)(2)(ii)	Equip each opening in an EFR with a gasketed cover, seal, or lid that is to be maintained in a closed position at all times except when device is in actual use (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves).	Maintain records that demonstrate each opening was designed and built with gasketed covers or lids. Perform visual inspection of the cover during required annual roof seal inspections to ensure all covers and lids are closed.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart Kb  1667	40 CFR 60.112b(a)(2)(ii)	Ensure that automatic bleeder vents are closed at all times when the EFR is floating except when the roof is being floated off or being landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
NSPS Subpart Kb  1668	40 CFR 60.112b(a)(2)(ii)	Ensure that rim space vents are set to open when the EFR is being floated off the roof leg supports or at the manufacturer's recommended setting.	Maintain records that demonstrate the rim space vents are designed to open only when the floating roof is setting on its legs or when the pressure beneath the seal actually exceeds the manufacturer's recommended setting.
NSPS Subpart Kb  1669	40 CFR 60.112b(a)(2)(ii)	Automatic bleeder vents and rim space vents on the EFR are to be gasketed.	Maintain records that demonstrate automatic bleeder vents and rim space vents are gasketed.
NSPS Subpart Kb  1670	40 CFR 60.112b(a)(2)(ii)	Provide each emergency roof drain in the EFR with a slotted membrane fabric cover that covers at least 90% of the area of the opening.	Maintain records that demonstrate the roof drain is equipped with a slotted membrane fabric that covers at least 90% of the open area.
NSPS Subpart Kb  1671	40 CFR 60.112b(a)(2)(iii)	Ensure that the EFR is floating on the liquid at all times except during initial fill until the roof is lifted off the leg supports and when the tank is completely emptied and subsequently refilled.	Maintain records to verify that the liquid is at a level which ensures the roof is floating on the liquid surface at all times except when supported by leg supports when emptied and degassed and during filling.
NSPS Subpart Kb  1672	40 CFR 60.112b(a)(2)(iii)	Ensure that the process of filling, emptying, or refilling when the EFR is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible.	Follow standard operating procedures to empty or refill the vessel as soon as possible, in a safe and effective manner.
NSPS Subpart Kb  1673	40 CFR 60.112b(b)	Ensure that the TVP of the tank contents is <11.1 psia or equip the vessel with a vapor recovery and disposal system to comply with all the requirements accordingly.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP > 11.1 psia.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart Kb	40 CFR 60.113b(b)(1)(i)	Measure gaps between tank wall and primary seal during hydrostatic testing of the EFR vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Measure according to 40 CFR 60.113b(b)(2-3).	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.
1674			
NSPS Subpart Kb	40 CFR 60.113b(b)(1)(ii)	Measure gaps between tank wall and secondary seal within 60 days of initial fill with VOL of the EFR tank and at least once per year thereafter. Measure according to 40 CFR 60.113b(b)(2-3).	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.
1675			
NSPS Subpart Kb	40 CFR 60.113b(b)(1)(iii)	Ensure that if EFR tank ceases to store VOL for a period of 1 year or more, subsequent filling of VOL into vessel is treated as an initial fill. Make measurements according to method outlined in 40 CFR 60.113b(b)(2-3).	Maintain a log of tank service. Any tank that is out-of-service for 1 year or more is treated as an initial fill upon refill with an organic liquid.
1676			
NSPS Subpart Kb	40 CFR 60.113b(b)(4) & (b)(4)(iii)	If the accumulated area of gaps or gap widths are exceeded, or mechanical shoe does not extend into or above the liquid surface as required, within 45 days make necessary repairs or empty EFR vessel or request 30 day extension from Administrator.	Maintain copies of reports on site for at least 5 years from date of report.
1677			
NSPS Subpart Kb	40 CFR 60.113b(b)(4)(i)	Ensure that the accumulated area of gaps between EFR tank wall and mechanical shoe seal or liquid-mounted primary seal does not exceed 212 sq. cm/m diameter and width of any portion of gap does not exceed 3.81 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
1678			
NSPS Subpart Kb	40 CFR 60.113b(b)(4)(i)(A)	Ensure that one end of the mechanical shoe on the EFR extends into the stored liquid, and the other end extends a minimum vertical distance of 61 cm above stored liquid surface.	Maintain records that demonstrate the mechanical shoe seal is designed to have one end extend into the stored liquid and the other end extend a minimum vertical distance of 61 cm above the stored liquid surface.
1679			
NSPS Subpart Kb	40 CFR 60.113b(b)(4)(i)(B)	Ensure that there are no holes, tears, or other openings in the shoe, seal fabric, or seal envelope of the primary seal on the EFR.	Verify the condition of the primary and/or secondary seals during routine inspections. Maintain a record of the inspections.
1680			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart Kb  1681	40 CFR 60.113b(b)(4)(ii)(A)	Ensure that the secondary seal is installed above the primary seal so that it completely covers the space between the roof edge and the tank wall.	Verify the condition of the primary and/or secondary seals during routine inspections. Maintain a record of the inspections.
NSPS Subpart Kb  1682	40 CFR 60.113b(b)(4)(ii)(B)	Ensure that the accumulated area of gaps between the EFR tank wall and the secondary seal does not exceed 21.2 sq. cm/m diameter and width of any portion of gap does not exceed 1.27 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
NSPS Subpart Kb  1683	40 CFR 60.113b(b)(4)(ii)(C)	Ensure that there are no holes, tears, or other openings in the shoe, seal fabric, or seal envelope of the secondary seal on the EFR.	Verify the condition of the primary and/or secondary seals during routine inspections. Maintain a record of the inspections.
NSPS Subpart Kb  1684	40 CFR 60.113b(b)(5)	Notify the Administrator in writing 30 days prior to gap measurements on the EFR tank.	Maintain copies of notifications to the Administrator on site for at least 5 years from date of notification.
NSPS Subpart Kb  1685	40 CFR 60.113b(b)(6)	Visually inspect the EFR, primary seal, secondary seal, and fittings each time the vessel is emptied and degassed.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.
NSPS Subpart Kb  1686	40 CFR 60.113b(b)(6)(i)	If defects including seals with holes, tears, or other openings, are detected during inspection of an emptied & degassed EFR tank, repair the items as necessary before filling or refilling vessel with VOL.	Maintain records that demonstrate defects detected during inspections are repaired prior to refilling with a volatile organic liquid.
NSPS Subpart Kb  1687	40 CFR 60.113b(b)(6)(ii)	For all inspections where EFR tank was emptied & degassed, notify the Administrator in writing 30 days prior to refilling. If inspection was unplanned, notify the Administrator at least 7 days prior by telephone and follow-up in writing.	Maintain copies of notifications to the Administrator on site for at least 5 years from date of notification.
NSPS Subpart Kb  1688	40 CFR 60.115b(b)(1)	Submit a report to the Administrator that describes the control equipment (i.e. EFR) and certifies that the control equipment meets the specifications of this regulation. Attach report with notification required in 40 CFR 60.7(a)(3).	Maintain copies of reports on site for at least 5 years from date of report.

Emission Source ID TK-8017  
Source Description Storage Tank

Process Unit  
Product Loading-96

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart Kb  1689	40 CFR 60.115b(b)(2)	Submit report to Administrator within 60 days of seal gap measurements on the EFR tank. Report should contain date of measurement, raw data, and calculations.	Maintain copies of reports on site for at least 5 years from date of report.
NSPS Subpart Kb  1690	40 CFR 60.115b(b)(3)	Maintain a record for at least 5 years of each gap measurement performed as required on the EFR tank. Record shall identify vessel measured, date of measurement, raw data, and calculations.	Maintain records of inspections and other data on site for at least 5 years.
NSPS Subpart Kb  1691	40 CFR 60.115b(b)(4)	If gaps in exceedance of the limitation are detected on the EFR, submit a report to the Administrator within 30 days of the inspection. Identify the vessel, date of measurement, raw data, calculations, and date vessel was emptied or repaired.	Maintain copies of reports on site for at least 5 years from date of report.
NSPS Subpart Kb  1692	40 CFR 60.116b(b)	Keep readily accessible records for the life of the source showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel (unless the vessel has design capacity <75 cu. m).	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
NSPS Subpart Kb  1693	40 CFR 60.116b(c)	Maintain a record for at least 5 years of the VOL stored, the period of storage, and the max TVP of that VOL during the respective storage period.	Maintain records of inspections and other data on site for at least 5 years.



Emission Source ID TK-8018  
Source Description Storage Tank

Process Unit  
Product Loading-96

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1694	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  1695	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.

Emission Source ID TK-8019  
Source Description Storage Tank

Process Unit  
Product Loading-96

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1696	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  1697	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.

Emission Source ID TK-8020  
Source Description Storage Tank

Process Unit  
No 1 Crude Unit-03

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1698	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  1699	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.

Emission Source ID TK-8021  
Source Description Storage Tank

Process Unit  
No 1 Crude Unit-03

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1700	40 CFR 63.654(i)(1) & 63.123(a)	Maintain readily accessible records showing the dimensions of the storage vessel and an analysis showing the capacity of the storage vessel. Keep record as long as vessel retains Group 1 or 2 status.	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
MACT Subpart CC - Tanks  1701	40 CFR 63.654(i)(1)(iv)	Maintain a record of any data, assumptions, and procedures used to determine Group 2 status (HAP is < or = 4% for existing sources).	Maintain data, assumptions, and calculations for determination of group status as long as status remains unchanged.

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KAR-HC Emissions  1702	KAR 28-19-23(A)(1)	Ensure that the tank is equipped with a floating roof such as a pontoon type, double deck type, or internal floating cover and that the liquid stored has a True Vapor Pressure (TVP) of <13.0 psia.	Maintain records that demonstrate the tank is equipped with an external floating roof and stores liquid with a TVP <13.0 psia.
KAR-HC Emissions  1703	KAR 28-19-23(A)(1)	Ensure that floating roof rests on the surface of the liquid contents and is equipped with a closure seal or seals to close the space between the roof edge and tank wall.	Maintain records that demonstrate the external floating roof closure device consists of 2 seals, a primary mechanical shoe seal or liquid mounted seal and a rim-mounted secondary seal. Maintain records that verify the liquid level ensures that the roof is floating at all times.
KAR-HC Emissions  1704	KAR 28-19-23(A)(1)	Ensure that all tank gauging or sampling devices are gas-tight except when tank gauging or sampling is taking place.	Maintain records that demonstrate tank gauging equipment and sampling devices are designed to be gas-tight except when gauging and sampling is taking place.
MACT Subpart CC - Tanks  1705	40 CFR 63.640(n)(8)(i)	Storage vessels that are to comply with §60.112b(a)(2) of subpart Kb are exempt from the secondary seal requirements of §60.112b(a)(2)(i)(B) during the gap measurements for the primary seal required by §60.113b(b) of subpart Kb.	Seal gaps will be measured according to the technique specified in the referenced citation. Records of the measurement will be maintained according to regulation to document the event.
MACT Subpart CC - Tanks  1706	40 CFR 63.640(n)(8)(ii)	If it is unsafe to perform gap measurements because the roof appears to be structurally unsound, the owner or operator shall comply with the requirements in either §63.120(b)(7)(i) or §63.120(b)(7)(ii).	Seal gaps will be measured according to the technique specified in the referenced citation. Records of the measurement will be maintained according to regulation to document the event.
MACT Subpart CC - Tanks  1707	40 CFR 63.640(n)(8)(iii)	If a failure is detected during the inspections required by §60.113b(a)(2) or during the seal gap measurements required by §60.113b(b)(1), and the vessel cannot be repaired or emptied within 45 days, utilize upto 30 extra calendar days for repairs.	Seal gaps will be measured according to the technique specified in the referenced citation. Records of the measurement will be maintained according to regulation to document the event.

Emission Source ID TK-8022  
Source Description Storage Tank

Process Unit  
Coker-12

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks	40 CFR 63.640(n)(8)(iv)	If an extension is utilized in accordance with §63.640(n)(8)(iii), provide the information listed in §60.113b(a)(2) or §60.113b(b)(4)(iii), and describe the nature and date the vessel was emptied or repaired.	Seal gaps will be measured according to the technique specified in the referenced citation. Records of the measurement will be maintained according to regulation to document the event.
1708 MACT Subpart CC - Tanks	40 CFR 63.640(n)(8)(vi)	Rim seal inspection reports specified in §60.115b(b)(2) are not required if none of the measured gaps or calculated gap areas exceed the limitations in §60.113b(b)(4). Documentation of the inspections shall be recorded as specified in §60.115b(b)(3).	Seal gaps will be measured according to the technique specified in the referenced citation. Records of the measurement will be maintained according to regulation to document the event.
1709 NSPS Subpart Kb	40 CFR 60.112b(a)	Equip vessel with fixed roof and IFR, EFR, closed vent system and control device, or a system equivalent to these.	Maintain records that demonstrate the tank is equipped with an external floating roof.
1710 NSPS Subpart Kb	40 CFR 60.112b(a)(2)	Ensure that the EFR is a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof.	Maintain records that demonstrate the external floating roof is a pontoon-type cover that is designed to rest on the surface of the liquid.
1711 NSPS Subpart Kb	40 CFR 60.112b(a)(2)(i)(A-B)	Equip the EFR with a two seal closure device (one above the other) in which the primary seal is either a mechanical shoe seal, or a liquid-mounted seal. Ensure that the seals completely cover the annular space between edge of floating roof and tank wall.	Maintain records that demonstrate closure consists of two seals, a primary mechanical shoe seal and secondary wiper seals designed to cover the annular space between the tank wall and the edge of the floating roof.
1712 NSPS Subpart Kb	40 CFR 60.112b(a)(2)(ii)	Provide a projection below the liquid surface for each opening in a non-contact EFR (except for automatic bleeder vents and rim space vents).	Maintain records that demonstrate each opening, except bleeder vents and rim space vents, in the floating roof is designed to project below the liquid surface.
1713 NSPS Subpart Kb	40 CFR 60.112b(a)(2)(ii)	Equip each opening in an EFR with a gasketed cover, seal, or lid that is to be maintained in a closed position at all times except when device is in actual use (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves).	Maintain records that demonstrate each opening was designed and built with gasketed covers or lids. Perform visual inspection of the cover during required annual roof seal inspections to ensure all covers and lids are closed.
1714			

Emission Source ID TK-8022  
Source Description Storage Tank

Process Unit  
Coker-12

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart Kb  1715	40 CFR 60.112b(a)(2)(ii)	Ensure that automatic bleeder vents are closed at all times when the EFR is floating except when the roof is being floated off or being landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.
NSPS Subpart Kb  1716	40 CFR 60.112b(a)(2)(ii)	Ensure that rim space vents are set to open when the EFR is being floated off the roof leg supports or at the manufacturer's recommended setting.	Maintain records that demonstrate the rim space vents are designed to open only when the floating roof is setting on its legs or when the pressure beneath the seal actually exceeds the manufacturer's recommended setting.
NSPS Subpart Kb  1717	40 CFR 60.112b(a)(2)(ii)	Automatic bleeder vents and rim space vents on the EFR are to be gasketed.	Maintain records that demonstrate automatic bleeder vents and rim space vents are gasketed.
NSPS Subpart Kb  1718	40 CFR 60.112b(a)(2)(ii)	Provide each emergency roof drain in the EFR with a slotted membrane fabric cover that covers at least 90% of the area of the opening.	Maintain records that demonstrate the roof drain is equipped with a slotted membrane fabric that covers at least 90% of the open area.
NSPS Subpart Kb  1719	40 CFR 60.112b(a)(2)(iii)	Ensure that the EFR is floating on the liquid at all times except during initial fill until the roof is lifted off the leg supports and when the tank is completely emptied and subsequently refilled.	Maintain records to verify that the liquid is at a level which ensures the roof is floating on the liquid surface at all times except when supported by leg supports when emptied and degassed and during filling.
NSPS Subpart Kb  1720	40 CFR 60.112b(a)(2)(iii)	Ensure that the process of filling, emptying, or refilling when the EFR is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible.	Follow standard operating procedures to empty or refill the vessel as soon as possible, in a safe and effective manner.
NSPS Subpart Kb  1721	40 CFR 60.112b(b)	Ensure that the TVP of the tank contents is <11.1 psia or equip the vessel with a vapor recovery and disposal system to comply with all the requirements accordingly.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP > 11.1 psia.

Emission Source ID TK-8022  
Source Description Storage Tank

Process Unit  
Coker-12

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart Kb	40 CFR 60.113b(b)(1)(i)	Measure gaps between tank wall and primary seal during hydrostatic testing of the EFR vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Measure according to 40 CFR 60.113b(b)(2-3).	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.
1722			
NSPS Subpart Kb	40 CFR 60.113b(b)(1)(ii)	Measure gaps between tank wall and secondary seal within 60 days of initial fill with VOL of the EFR tank and at least once per year thereafter. Measure according to 40 CFR 60.113b(b)(2-3).	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.
1723			
NSPS Subpart Kb	40 CFR 60.113b(b)(1)(iii)	Ensure that if EFR tank ceases to store VOL for a period of 1 year or more, subsequent filling of VOL into vessel is treated as an initial fill. Make measurements according to method outlined in 40 CFR 60.113b(b)(2-3).	Maintain a log of tank service. Any tank that is out-of-service for 1 year or more is treated as an initial fill upon refill with an organic liquid.
1724			
NSPS Subpart Kb	40 CFR 60.113b(b)(4) & (b)(4)(iii)	If the accumulated area of gaps or gap widths are exceeded, or mechanical shoe does not extend into or above the liquid surface as required, within 45 days make necessary repairs or empty EFR vessel or request 30 day extension from Administrator.	Maintain copies of reports on site for at least 5 years from date of report.
1725			
NSPS Subpart Kb	40 CFR 60.113b(b)(4)(i)	Ensure that the accumulated area of gaps between EFR tank wall and mechanical shoe seal or liquid-mounted primary seal does not exceed 212 sq. cm/m diameter and width of any portion of gap does not exceed 3.81 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
1726			
NSPS Subpart Kb	40 CFR 60.113b(b)(4)(i)(A)	Ensure that one end of the mechanical shoe on the EFR extends into the stored liquid, and the other end extends a minimum vertical distance of 61 cm above stored liquid surface.	Maintain records that demonstrate the mechanical shoe seal is designed to have one end extend into the stored liquid and the other end extend a minimum vertical distance of 61 cm above the stored liquid surface.
1727			
NSPS Subpart Kb	40 CFR 60.113b(b)(4)(i)(B)	Ensure that there are no holes, tears, or other openings in the shoe, seal fabric, or seal envelope of the primary seal on the EFR.	Verify the condition of the primary and/or secondary seals during routine inspections. Maintain a record of the inspections.
1728			



Emission Source ID TK-8022  
Source Description Storage Tank

Process Unit  
Coker-12

CLASS I OPERATING PERMIT

Source ID No.: 1250003

ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart Kb	40 CFR 60.113b(b)(4)(ii)(A)	Ensure that the secondary seal is installed above the primary seal so that it completely covers the space between the roof edge and the tank wall.	Verify the condition of the primary and/or secondary seals during routine inspections. Maintain a record of the inspections.
1729 NSPS Subpart Kb	40 CFR 60.113b(b)(4)(ii)(B)	Ensure that the accumulated area of gaps between the EFR tank wall and the secondary seal does not exceed 21.2 sq. cm/m diameter and width of any portion of gap does not exceed 1.27 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
1730 NSPS Subpart Kb	40 CFR 60.113b(b)(4)(ii)(C)	Ensure that there are no holes, tears, or other openings in the shoe, seal fabric, or seal envelope of the secondary seal on the EFR.	Verify the condition of the primary and/or secondary seals during routine inspections. Maintain a record of the inspections.
1731 NSPS Subpart Kb	40 CFR 60.113b(b)(5)	Notify the Administrator in writing 30 days prior to gap measurements on the EFR tank.	Maintain copies of notifications to the Administrator on site for at least 5 years from date of notification.
1732 NSPS Subpart Kb	40 CFR 60.113b(b)(6)	Visually inspect the EFR, primary seal, secondary seal, and fittings each time the vessel is emptied and degassed.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.
1733 NSPS Subpart Kb	40 CFR 60.113b(b)(6)(i)	If defects including seals with holes, tears, or other openings, are detected during inspection of an emptied & degassed EFR tank, repair the items as necessary before filling or refilling vessel with VOL.	Maintain records that demonstrate defects detected during inspections are repaired prior to refilling with a volatile organic liquid.
1734 NSPS Subpart Kb	40 CFR 60.113b(b)(6)(ii)	For all inspections where EFR tank was emptied & degassed, notify the Administrator in writing 30 days prior to refilling. If inspection was unplanned, notify the Administrator at least 7 days prior by telephone and follow-up in writing.	Maintain copies of notifications to the Administrator on site for at least 5 years from date of notification.
1735 NSPS Subpart Kb	40 CFR 60.115b(b)(1)	Submit a report to the Administrator that describes the control equipment (i.e. EFR) and certifies that the control equipment meets the specifications of this regulation. Attach report with notification required in 40 CFR 60.7(a)(3).	Maintain copies of reports on site for at least 5 years from date of report.
1736			

Emission Source ID TK-8022  
Source Description Storage Tank

Process Unit  
Coker-12

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart Kb  1737	40 CFR 60.115b(b)(2)	Submit report to Administrator within 60 days of seal gap measurements on the EFR tank. Report should contain date of measurement, raw data, and calculations.	Maintain copies of reports on site for at least 5 years from date of report.
NSPS Subpart Kb  1738	40 CFR 60.115b(b)(3)	Maintain a record for at least 5 years of each gap measurement performed as required on the EFR tank. Record shall identify vessel measured, date of measurement, raw data, and calculations.	Maintain records of inspections and other data on site for at least 5 years.
NSPS Subpart Kb  1739	40 CFR 60.115b(b)(4)	If gaps in exceedance of the limitation are detected on the EFR, submit a report to the Administrator within 30 days of the inspection. Identify the vessel, date of measurement, raw data, calculations, and date vessel was emptied or repaired.	Maintain copies of reports on site for at least 5 years from date of report.
NSPS Subpart Kb  1740	40 CFR 60.116b(b)	Keep readily accessible records for the life of the source showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel (unless the vessel has design capacity <75 cu. m).	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
NSPS Subpart Kb  1741	40 CFR 60.116b(c)	Maintain a record for at least 5 years of the VOL stored, the period of storage, and the max TVP of that VOL during the respective storage period.	Maintain records of inspections and other data on site for at least 5 years.

Emission Source ID TK-8023  
Source Description Storage Tank

Process Unit  
Cat Cracking-13

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
KAR-HC Emissions	KAR 28-19-23(A)(1)	Ensure that the tank is equipped with a floating roof such as a pontoon type, double deck type, or internal floating cover and that the liquid stored has a True Vapor Pressure (TVP) of <13.0 psia.	Maintain records that demonstrate the tank is equipped with an external floating roof and stores liquid with a TVP <13.0 psia.
1742			
KAR-HC Emissions	KAR 28-19-23(A)(1)	Ensure that floating roof rests on the surface of the liquid contents and is equipped with a closure seal or seals to close the space between the roof edge and tank wall.	Maintain records that demonstrate the external floating roof closure device consists of 2 seals, a primary mechanical shoe seal or liquid mounted seal and a rim-mounted secondary seal. Maintain records that verify the liquid level ensures that the roof is floating at all times.
1743			
KAR-HC Emissions	KAR 28-19-23(A)(1)	Ensure that all tank gauging or sampling devices are gas-tight except when tank gauging or sampling is taking place.	Maintain records that demonstrate tank gauging equipment and sampling devices are designed to be gas-tight except when gauging and sampling is taking place.
1744			
MACT Subpart CC - Tanks	40 CFR 63.640(n)(8)(i)	Storage vessels that are to comply with §60.112b(a)(2) of subpart Kb are exempt from the secondary seal requirements of §60.112b(a)(2)(i)(B) during the gap measurements for the primary seal required by §60.113b(b) of subpart Kb.	Seal gaps will be measured according to the technique specified in the referenced citation. Records of the measurement will be maintained according to regulation to document the event.
1745			
MACT Subpart CC - Tanks	40 CFR 63.640(n)(8)(ii)	If it is unsafe to perform gap measurements because the roof appears to be structurally unsound, the owner or operator shall comply with the requirements in either §63.120(b)(7)(i) or §63.120(b)(7)(ii).	Seal gaps will be measured according to the technique specified in the referenced citation. Records of the measurement will be maintained according to regulation to document the event.
1746			
MACT Subpart CC - Tanks	40 CFR 63.640(n)(8)(iii)	If a failure is detected during the inspections required by §60.113b(a)(2) or during the seal gap measurements required by §60.113b(b)(1), and the vessel cannot be repaired or emptied within 45 days, utilize upto 30 extra calendar days for repairs.	Seal gaps will be measured according to the technique specified in the referenced citation. Records of the measurement will be maintained according to regulation to document the event.
1747			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
MACT Subpart CC - Tanks  1748	40 CFR 63.640(n)(8)(iv)	If an extension is utilized in accordance with §63.640(n)(8)(iii), provide the information listed in §60.113b(a)(2) or §60.113b(b)(4)(iii), and describe the nature and date the vessel was emptied or repaired.	Seal gaps will be measured according to the technique specified in the referenced citation. Records of the measurement will be maintained according to regulation to document the event.
MACT Subpart CC - Tanks  1749	40 CFR 63.640(n)(8)(vi)	Rim seal inspection reports specified in §60.115b(b)(2) are not required if none of the measured gaps or calculated gap areas exceed the limitations in §60.113b(b)(4). Documentation of the inspections shall be recorded as specified in §60.115b(b)(3).	Seal gaps will be measured according to the technique specified in the referenced citation. Records of the measurement will be maintained according to regulation to document the event.
NSPS Subpart Kb  1750	40 CFR 60.112b(a)	Equip vessel with fixed roof and IFR, EFR, closed vent system and control device, or a system equivalent to these.	Maintain records that demonstrate the tank is equipped with an external floating roof.
NSPS Subpart Kb  1751	40 CFR 60.112b(a)(2)	Ensure that the EFR is a pontoon-type or double-deck type cover that rests on the liquid surface in a vessel with no fixed roof.	Maintain records that demonstrate the external floating roof is a pontoon-type cover that is designed to rest on the surface of the liquid.
NSPS Subpart Kb  1752	40 CFR 60.112b(a)(2)(i)(A-B)	Equip the EFR with a two seal closure device (one above the other) in which the primary seal is either a mechanical shoe seal, or a liquid-mounted seal. Ensure that the seals completely cover the annular space between edge of floating roof and tank wall.	Maintain records that demonstrate closure consists of two seals, a primary mechanical shoe seal and secondary wiper seals designed to cover the annular space between the tank wall and the edge of the floating roof.
NSPS Subpart Kb  1753	40 CFR 60.112b(a)(2)(ii)	Equip each opening in an EFR with a gasketed cover, seal, or lid that is to be maintained in a closed position at all times except when device is in actual use (except for automatic bleeder vents, rim space vents, roof drains, and leg sleeves).	Maintain records that demonstrate each opening was designed and built with gasketed covers or lids. Perform visual inspection of the cover during required annual roof seal inspections to ensure all covers and lids are closed.
NSPS Subpart Kb  1754	40 CFR 60.112b(a)(2)(ii)	Ensure that automatic bleeder vents are closed at all times when the EFR is floating except when the roof is being floated off or being landed on the roof leg supports.	Maintain records that demonstrate the automatic bleeder vents are gasketed and designed to open only when the roof is on leg supports.

Emission Source ID TK-8023  
Source Description Storage Tank

Process Unit  
Cat Cracking-13

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart Kb	40 CFR 60.112b(a)(2)(ii)	Ensure that rim space vents are set to open when the EFR is being floated off the roof leg supports or at the manufacturer's recommended setting.	Maintain records that demonstrate the rim space vents are designed to open only when the floating roof is setting on its legs or when the pressure beneath the seal actually exceeds the manufacturer's recommended setting.
1755 NSPS Subpart Kb	40 CFR 60.112b(a)(2)(ii)	Automatic bleeder vents and rim space vents on the EFR are to be gasketed.	Maintain records that demonstrate automatic bleeder vents and rim space vents are gasketed.
1756 NSPS Subpart Kb	40 CFR 60.112b(a)(2)(ii)	Provide each emergency roof drain in the EFR with a slotted membrane fabric cover that covers at least 90% of the area of the opening.	Maintain records that demonstrate the roof drain is equipped with a slotted membrane fabric that covers at least 90% of the open area.
1757 NSPS Subpart Kb	40 CFR 60.112b(a)(2)(ii)	Provide a projection below the liquid surface for each opening in a non-contact EFR (except for automatic bleeder vents and rim space vents).	Maintain records that demonstrate each opening, except bleeder vents and rim space vents, in the floating roof is designed to project below the liquid surface.
1758 NSPS Subpart Kb	40 CFR 60.112b(a)(2)(iii)	Ensure that the EFR is floating on the liquid at all times except during initial fill until the roof is lifted off the leg supports and when the tank is completely emptied and subsequently refilled.	Maintain records to verify that the liquid is at a level which ensures the roof is floating on the liquid surface at all times except when supported by leg supports when emptied and degassed and during filling.
1759 NSPS Subpart Kb	40 CFR 60.112b(a)(2)(iii)	Ensure that the process of filling, emptying, or refilling when the EFR is resting on the leg supports shall be continuous and shall be accomplished as rapidly as possible.	Follow standard operating procedures to empty or refill the vessel as soon as possible, in a safe and effective manner.
1760 NSPS Subpart Kb	40 CFR 60.112b(b)	Ensure that the TVP of the tank contents is <11.1 psia or equip the vessel with a vapor recovery and disposal system to comply with all the requirements accordingly.	Maintain records and systems to ensure that the vessel does not store fluids with a TVP > 11.1 psia.
1761			

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart Kb	40 CFR 60.113b(b)(1)(i)	Measure gaps between tank wall and primary seal during hydrostatic testing of the EFR vessel or within 60 days of the initial fill with VOL and at least once every 5 years thereafter. Measure according to 40 CFR 60.113b(b)(2-3).	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.
1762			
NSPS Subpart Kb	40 CFR 60.113b(b)(1)(ii)	Measure gaps between tank wall and secondary seal within 60 days of initial fill with VOL of the EFR tank and at least once per year thereafter. Measure according to 40 CFR 60.113b(b)(2-3).	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.
1763			
NSPS Subpart Kb	40 CFR 60.113b(b)(1)(iii)	Ensure that if EFR tank ceases to store VOL for a period of 1 year or more, subsequent filling of VOL into vessel is treated as an initial fill. Make measurements according to method outlined in 40 CFR 60.113b(b)(2-3).	Maintain a log of tank service. Any tank that is out-of-service for 1 year or more is treated as an initial fill upon refill with an organic liquid.
1764			
NSPS Subpart Kb	40 CFR 60.113b(b)(4) & (b)(4)(iii)	If the accumulated area of gaps or gap widths are exceeded, or mechanical shoe does not extend into or above the liquid surface as required, within 45 days make necessary repairs or empty EFR vessel or request 30 day extension from Administrator.	Maintain copies of reports on site for at least 5 years from date of report.
1765			
NSPS Subpart Kb	40 CFR 60.113b(b)(4)(i)	Ensure that the accumulated area of gaps between EFR tank wall and mechanical shoe seal or liquid-mounted primary seal does not exceed 212 sq. cm/m diameter and width of any portion of gap does not exceed 3.81 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
1766			
NSPS Subpart Kb	40 CFR 60.113b(b)(4)(i)(A)	Ensure that one end of the mechanical shoe on the EFR extends into the stored liquid, and the other end extends a minimum vertical distance of 61 cm above stored liquid surface.	Maintain records that demonstrate the mechanical shoe seal is designed to have one end extend into the stored liquid and the other end extend a minimum vertical distance of 61 cm above the stored liquid surface.
1767			
NSPS Subpart Kb	40 CFR 60.113b(b)(4)(i)(B)	Ensure that there are no holes, tears, or other openings in the shoe, seal fabric, or seal envelope of the primary seal on the EFR.	Verify the condition of the primary and/or secondary seals during routine inspections. Maintain a record of the inspections.
1768			

Emission Source ID TK-8023  
Source Description Storage Tank

Process Unit  
Cat Cracking-13

CLASS 1 OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart Kb  1769	40 CFR 60.113b(b)(4)(ii)(A)	Ensure that the secondary seal is installed above the primary seal so that it completely covers the space between the roof edge and the tank wall.	Verify the condition of the primary and/or secondary seals during routine inspections. Maintain a record of the inspections.
NSPS Subpart Kb  1770	40 CFR 60.113b(b)(4)(ii)(B)	Ensure that the accumulated area of gaps between the EFR tank wall and the secondary seal does not exceed 21.2 sq. cm/m diameter and width of any portion of gap does not exceed 1.27 cm.	Measure gap areas and widths according to the frequency specified in the referenced citation. Record and maintain measurement records on site for at least 5 years from date of measurement.
NSPS Subpart Kb  1771	40 CFR 60.113b(b)(4)(ii)(C)	Ensure that there are no holes, tears, or other openings in the shoe, seal fabric, or seal envelope of the secondary seal on the EFR.	Verify the condition of the primary and/or secondary seals during routine inspections. Maintain a record of the inspections.
NSPS Subpart Kb  1772	40 CFR 60.113b(b)(5)	Notify the Administrator in writing 30 days prior to gap measurements on the EFR tank.	Maintain copies of notifications to the Administrator on site for at least 5 years from date of notification.
NSPS Subpart Kb  1773	40 CFR 60.113b(b)(6)	Visually inspect the EFR, primary seal, secondary seal, and fittings each time the vessel is emptied and degassed.	Inspect vessel according to the frequency specified in the referenced citation. Maintain a record of inspection on site for at least 5 years from date of inspection.
NSPS Subpart Kb  1774	40 CFR 60.113b(b)(6)(i)	If defects including seals with holes, tears, or other openings, are detected during inspection of an emptied & degassed EFR tank, repair the items as necessary before filling or refilling vessel with VOL.	Maintain records that demonstrate defects detected during inspections are repaired prior to refilling with a volatile organic liquid.
NSPS Subpart Kb  1775	40 CFR 60.113b(b)(6)(ii)	For all inspections where EFR tank was emptied & degassed, notify the Administrator in writing 30 days prior to refilling. If inspection was unplanned, notify the Administrator at least 7 days prior by telephone and follow-up in writing.	Maintain copies of notifications to the Administrator on site for at least 5 years from date of notification.
NSPS Subpart Kb  1776	40 CFR 60.115b(b)(1)	Submit a report to the Administrator that describes the control equipment (i.e. EFR) and certifies that the control equipment meets the specifications of this regulation. Attach report with notification required in 40 CFR 60.7(a)(3).	Maintain copies of reports on site for at least 5 years from date of report.

Emission Source ID TK-8023  
Source Description Storage Tank

Process Unit  
Cat Cracking-13

CLASS I OPERATING PERMIT  
Source ID No.: 1250003  
ATTACHMENT D

Applicable Requirement	Citation	Operating Limitation Or Condition	Monitoring, Performance Test, Recordkeeping and Reporting
NSPS Subpart Kb  1777	40 CFR 60.115b(b)(2)	Submit report to Administrator within 60 days of seal gap measurements on the EFR tank. Report should contain date of measurement, raw data, and calculations.	Maintain copies of reports on site for at least 5 years from date of report.
NSPS Subpart Kb  1778	40 CFR 60.115b(b)(3)	Maintain a record for at least 5 years of each gap measurement performed as required on the EFR tank. Record shall identify vessel measured, date of measurement, raw data, and calculations.	Maintain records of inspections and other data on site for at least 5 years.
NSPS Subpart Kb  1779	40 CFR 60.115b(b)(4)	If gaps in exceedance of the limitation are detected on the EFR, submit a report to the Administrator within 30 days of the inspection. Identify the vessel, date of measurement, raw data, calculations, and date vessel was emptied or repaired.	Maintain copies of reports on site for at least 5 years from date of report.
NSPS Subpart Kb  1780	40 CFR 60.116b(b)	Keep readily accessible records for the life of the source showing the dimension of the storage vessel and an analysis showing the capacity of the storage vessel (unless the vessel has design capacity <75 cu. m).	Maintain for review a record of the dimension of the storage vessel and an analysis showing the capacity of the vessel.
NSPS Subpart Kb  1781	40 CFR 60.116b(c)	Maintain a record for at least 5 years of the VOL stored, the period of storage, and the max TVP of that VOL during the respective storage period.	Maintain records of inspections and other data on site for at least 5 years.



**Attachment E**

**NSPS Subpart QQQ Letter Agreement**

**Cooperative Refining, LLC**

NORTH LINDEN - P.O. BOX 510 COFFEYVILLE, KANSAS 67337 316/251-4000

Sent Via Certified Mail, Return Receipt Requested  
P 418 066 865

October 6, 1999

Mr. Lynn Ranabargar  
Kansas Department of Health and Environment  
Bureau of Air and Radiation  
Forbes Field, Bldg. 283  
Topeka, KS 66620-0001

Source ID No. 1250003

Dear Mr. Ranabargar

This letter is to confirm the conversations between yourself and Mr. Larry Mersberg on September 17 about an alternate method of compliance for individual drain systems, 40 CFR, Part 60, Subpart QQQ, 60.692-2. The standard specifies "water seal controls" for applicable refinery wastewater drain system.

Operators at our #3 Vacuum Unit have on occasion experienced the water in this system flashing to steam as they have need to drain up a hot oil pump for maintenance. This presents an unsafe situation with potential danger to their health. For this reason, we are using a "heavy gas oil" instead of water in these drains for the purpose of the vapor seal. The heavy gas oil does not contain any hazardous air pollutants or organic vapors as checked with an organic vapor analyzer. In a subsequent conversation with Mr. Larry Mersberg you referenced discussion with Mindy Bowman concerning this alternate method would be acceptable.

I have enclosed the letter that has been placed in our file as per your recommendation during your conversation with Mr. Mersberg. If you have any questions or comments about this subject please contact me at (361) 251-4000, ext 541.

Sincerely,



Thomas W. McPheeters  
Environmental Technician  
Cooperative Refining, LLC

cc:

D. Irwin  
K. Heins  
K. Osborn

Attachment

CRRM0000652

**Cooperative Refining, LLC**

NORTH LINDEN, P.O. BOX 571 COFFEYVILLE, KANSAS 67337 316/251-4000

October 6, 1999

Source ID No. 1250003

This letter is being placed in the file as a result of a telephone conversations between Mr. Lynn Ranabarger of KDEE, and Mr. Larry Mersberg of Cooperative Refining, LLC. On September 17, 1999 Mr. Mersberg requested the use of an alternate method of compliance for individual drain systems, 40 CFR, Part 60, Subpart QQQ, 60.612-2. A section of the standard specifies the use of "water" as a seal control for Subpart QQQ drain systems.

Using the specified standard has caused our operators at our #3 Vacuum Unit, on occasion, to experience the water in this system to flash to steam when they drain up a hot oil pump for maintenance. This has presented an unsafe situation causing minor injuries and near misses with potential danger to the operators well being. Therefore, we have used a "heavy gas oil" instead of water in these drains for the purpose of the vapor system vapor seal. The heavy gas oil does not contain any hazardous air pollutants and has been checked with an organic vapor analyzer for vaporizing VOC's. A non-detect reading was observed. Additionally, we have not experienced flashing when using heavy oil in this application.

In a subsequent conversation with Mr. Mersberg, Mr. Ranabarger had indicated that he had discussed this matter with Ms. Mindy Bowman of his office and she concurred that this alternate method would be acceptable with a copy letter from CR, LLC to your agency. We have begun to use the heavy gas oil in our #3 Vacuum Unit individual drain system to maintain the vapor seal.

Thomas W. McPheters  
Environmental Technician  
Cooperative Refining, LLC

Is your RETURN ADDRESS completed on the reverse side?

**SENDER:**

- Complete items 1 and/or 2 for additional services.
- Complete items 3, 4a, and 4b.
- Print your name and address on the reverse of this form so that we can return this card to you.
- Attach this form to the front of the mailpiece, or on the back if space does not permit.
- Write "Return Receipt Requested" on the mailpiece below the article number.
- The Return Receipt will show to whom the article was delivered and the date delivered.

I also wish to receive the following services (for an extra fee):

- 1 ☐ Addressee's Address  
2 ☐ Restricted Delivery

Consult postmaster for fee.

## 3. Article Addressed to:

Lynn Ranabarger  
Kansas Dept of Health and Environment  
Toebes Field, Bldg. 283  
Topeka, KS 66620-0001

## Article Number

418 066 865

## Service Type

☐ Registered☒ Certified☐ Express Mail☐ Insured☐ Return Receipt for Merchandise☐ COD

## Date of Delivery

10-7-99

## 5. Received By: (Print Name)

Addressee's Address (Only if requested and fee is paid)

## 6. Signature: (Addressee or Agent)

x Donna Reno

PS Form 3811, December 1994

0-517-0179

Domestic Return Receipt

Thank you for using Return Receipt Service.

- Stick postage charges for:  
1. If you want address label window or label.  
2. If you do not return article.  
3. If you want on a return gunned on RETURN R.  
4. If you address.  
5. Enter fee receipt. If it.  
6. Save this.

**Attachment F**  
**Consent Decree**

UNITED STATES DISTRICT COURT  
FOR THE DISTRICT OF KANSAS

UNITED STATES OF AMERICA, )  
 )  
 Plaintiff, )  
 )  
 and )  
 )  
 KANSAS DEPARTMENT OF )  
 HEALTH AND ENVIRONMENT, )  
 ex rel STATE OF KANSAS, )  
 )  
 Plaintiff Intervener, )  
 )  
 v. )  
 )  
 COFFEYVILLE RESOURCES )  
 REFINING & MARKETING, LLC )  
 and )  
 COFFEYVILLE RESOURCES )  
 TERMINAL, LLC, )  
 )  
 Defendants. )  
 \_\_\_\_\_ )

Civil No. 04-1064-MLB

### **CONSENT DECREE**

WHEREAS after Closing, Coffeyville Resources Refining & Marketing, LLC ("CRRM") will have acquired the Farmland Industries, Inc. ("Farmland Industries") refinery and certain related assets in Coffeyville, Kansas (hereinafter collectively "refinery"), and Coffeyville Resources Terminal, LLC ("CRT") will have acquired the Farmland Industries Phillipsburg terminal and certain related assets in Phillipsburg, Kansas (hereinafter "terminal"), each pursuant to a sale order entered by the United States Bankruptcy Court for the Western District of Missouri on or about November 4, 2003;

WHEREAS prior to the Closing, Farmland Industries had disclosed to the United States Environmental Protection Agency ("EPA") and the Kansas Department of Health and the Environment ("KDHE") under EPA's Audit Policy and the Kansas environmental audit laws, that it had triggered certain applicable requirements of the Clean Air Act ("CAA") at the refinery;

WHEREAS to remedy the potential CAA non-compliance at the refinery self-disclosed by Farmland Industries, EPA alleges that Farmland Industries was required to install certain controls, make certain operational changes and incorporate those control and operational changes into federally enforceable permit conditions for the refinery;

WHEREAS Farmland Industries had not completed the installation of the controls, made all of the required operational changes and incorporated those control and operational changes into federally enforceable permit terms and conditions for the refinery prior to the Closing;

WHEREAS Plaintiff, the United States of America (hereinafter "Plaintiff" or "the United States"), on behalf of EPA, and KDHE recognize and acknowledge that neither CRRM nor CRT caused or contributed to the potential CAA non-compliance self-disclosed by Farmland

Industries at the refinery;

WHEREAS notwithstanding the fact that they did not cause or contribute to the potential past CAA non-compliance at the refinery, CRRM has agreed to install the controls, make the operational changes and incorporate the control and operational changes into federally enforceable permit conditions upon acquiring the refinery from Farmland Industries;

WHEREAS based on the historic generation, treatment, storage and/or disposal of hazardous and/or solid wastes at the refinery and terminal, CRRM as the current owner and/or operator of the refinery, and CRT, as the current owner and/or operator of the terminal, are subject to the jurisdiction of the Solid Waste Disposal Act (SWDA), as amended by the Resource Conservation and Recovery Act (RCRA) with the Hazardous and Solid Waste Amendments, 42 U.S.C. § 6901 *et seq.*, and the regulations promulgated thereunder;

WHEREAS CRRM and CRT have waived any applicable federal or state requirements of statutory notice of the alleged violations by Farmland Industries that have not been remedied as of the date of the sale of the refinery and/or terminal to CRRM and CRT, respectively; and

WHEREAS for the reasons described above, the United States of America (hereinafter "Plaintiff" or "the United States"), on behalf of the United States Environmental Protection Agency (hereinafter "EPA"), The State of Kansas (hereinafter "KDHE" or "Plaintiff Intervener"), CRRM and CRT have agreed that this Consent Decree and the simultaneous filing of a complaint are the best means of memorializing the parties' agreement, that the agreement as memorialized in this Consent Decree is in the best interest of the parties and in the public interest, and that entry of this Consent Decree without further litigation is the most appropriate means of resolving this matter;

WHEREAS the United States, has simultaneously filed a Complaint and lodged this



Consent Decree 1) against CRRM for alleged CAA violations at the refinery located in Coffeyville, Kansas, which has been owned and operated by Farmland Industries, Inc., and for performance of certain actions under RCRA at said refinery, and 2) against CRT for performance of certain actions under RCRA at the terminal and former petroleum refinery located in Phillipsburg, Kansas, which has been owned and operated by Farmland Industries, Inc;

WHEREAS the KDHE has filed a Complaint in Intervention for the same purpose;

WHEREAS in light of the agreement memorialized in this Consent Decree, CRRM and CRT have not answered or otherwise responded to the Complaint;

NOW, THEREFORE, without any admission of fact or law, and without any admission of the violations alleged in the Complaint, it is hereby ORDERED AND DECREED as follows:

#### **I. JURISDICTION AND VENUE**

1. This Court has jurisdiction over the subject matter of this action and over the Parties pursuant to 28 U.S.C. §§ 1331, 1345 and 1355. In addition, this Court has jurisdiction over the subject matter of this action pursuant to Sections 113(b) and 167 of the CAA, 42 U.S.C. §§ 7413(b) and 7477, and pursuant to Section 3008(a)(1) of RCRA, 42 U.S.C. 6928(a)(1). The United States' complaint states a claim upon which relief may be granted against CRRM. Authority to bring this suit is vested in the United States Department of Justice by 28 U.S.C. §§ 516 and 519, and Section 305 of the CAA, 42 U.S.C. § 7605. Plaintiff-Intervener, KDHE, ex rel. the State of Kansas, filed a complaint in intervention in this matter for alleged violations of its corresponding state air quality statutes and regulations.

2. Venue is proper in the District of Kansas pursuant to Section 113(b) of the CAA, 42 U.S.C. § 7413(b), Section 3008(a)(1), 42 U.S.C. § 6928(a)(1) and 28 U.S.C. §§ 1391(b) and

(c), and 1395(a). CRRM and CRT consent to the personal jurisdiction of this Court and waive any objections to venue in this District

3. Notice of the commencement of this action has been given to the State of Kansas in accordance with Section 113(a)(1) of the CAA, 42 U.S.C. § 7413(a)(1), and as required by Section 113(b) of the CAA, 42 U.S.C. § 7413(b) and Section 3008(a)(2), of RCRA, 42 U.S.C. § 6928(a)(2).

## **II. APPLICABILITY AND BINDING EFFECT**

4. The CAA and RCRA provisions of this Consent Decree related to the refinery located in Coffeyville, Kansas, shall apply to CRRM and shall be binding upon the United States, the State of Kansas, CRRM and its agents, successors and assigns. The RCRA provisions of this Consent Decree related to the terminal and former refinery located in Phillipsburg, Kansas shall apply to CRT and shall be binding upon the United States, the State of Kansas, CRT and its agents, successors, and assigns

5. CRRM and CRT agree not to contest the validity of this Consent Decree in any subsequent proceeding to implement or enforce its terms.

6. Effective from the Date of Lodging of the Consent Decree, CRRM shall give written notice of this Consent Decree to any successors in interest prior to the transfer of ownership or operation of all or any portion of the refinery and shall provide a copy of this Consent Decree to any successor in interest. Effective from the Date of Lodging of this Consent Decree, CRT shall give written notice of this Consent Decree to any successors in interest prior to the transfer of ownership or operation of all or any portion of the terminal and shall provide a copy of this Consent Decree to any successor in interest. CRRM and CRT, as applicable, shall notify the United States and the State of Kansas in accordance with the notice provisions set

forth in Paragraph 145 (Notice), of any successor in interest at least thirty (30) days prior to such transfer.

7. CRRM and CRT, as applicable, shall condition any transfer, in whole or in part, of ownership of, operation of, or other interest (exclusive of any non-controlling, non-operational member-owner interest) in its respective properties upon the execution by the transferee of a modification to this Consent Decree, which makes the terms and conditions of this Consent Decree applicable to the transferee. The Parties shall file that modification with the Court promptly upon such transfer.

#### **DEFINITIONS**

8. Unless otherwise defined herein, terms used in this Consent Decree shall have the meaning given to those terms in the CAA and RCRA and the implementing regulations promulgated thereunder. The following terms used in this Consent Decree shall be defined for purposes of this Consent Decree and the reports or documents submitted pursuant thereto as follows:

- A. "Applicable Federal and State Agencies" shall mean EPA's Office of Regulatory Enforcement, EPA's Region 7, and KDHE.
- B. "Calendar Quarter" shall mean the three month period ending on March 31st, June 30th, September 30th, or December 31st.
- C. "CEMS" shall mean continuous emissions monitoring system.
- D. "CRRM" shall mean Coffeyville Resources Refining & Marketing, LLC.
- E. "CRT" shall mean Coffeyville Resources Terminal, LLC.
- F. "Consent Decree" or "Decree" shall mean this Consent Decree, including any and all appendices attached to this Consent Decree

- G. "CO" shall mean carbon monoxide.
- H. "Date of Closing" shall mean the date CRRM acquires the refinery and related assets located in Coffeyville, Kansas, and CRT acquires the former refinery, terminal and related assets located in Phillipsburg, Kansas.
- I. "Date of Lodging of the Consent Decree" shall mean the date this Consent Decree is filed for lodging with the Clerk of the Court for the United States District Court for the District of Kansas.
- J. "Date of Entry of the Consent Decree" shall mean the date this Consent Decree is approved or signed by the United States District Court Judge
- K. "Day" or "Days" shall mean a calendar day or days.
- L. "Fluid Catalytic Cracking Unit (FCCU)" shall mean the regenerator in which coke burn-off and catalyst or contact material regeneration occurs, and includes the regenerator combustion airblower
- M. "KDHE" shall mean the Kansas Department of Health and Environment and any successor departments or agencies of the State of Kansas.
- N. "Malfunction" shall mean any sudden, infrequent, and not reasonably preventable failure of air pollution control equipment, process equipment, or a process to operate in a normal or usual manner. Failures that are caused in part by poor maintenance or careless operation are not malfunctions.
- O. "NOx" shall mean nitrogen oxides.
- P. "Paragraph" shall mean a portion of this Consent Decree identified by an Arabic numeral.
- Q. "Parties" shall mean the United States, the State of Kansas, CRRM and

CRT

R. “Refinery” shall mean the refinery and related assets located in Coffeyville, Kansas, formerly owned and/or operated by Farmland Industries, Inc. and now owned and operated by CRRM

S. “PM” shall mean particulate matter.

T. “Post-Lodging Compliance Dates” shall mean any dates after the Date of Lodging of the Consent Decree. Post-Lodging Compliance Dates include dates certain (e.g., “December 31, 2003), dates after Lodging represented in terms of “months after Lodging” (e.g., “twelve months after the Date of Lodging”), and dates after Lodging represented by actions taken (e.g., “Date of Certification”). The Post-Lodging Compliance Dates represent the dates by which work is required to be completed or an emission limit is required to be met under the applicable provisions of this Consent Decree.

U. “SO<sub>2</sub>” shall mean sulfur dioxide.

V. “Sulfur Recovery Plant” or “SRP” shall mean a process unit that recovers sulfur from hydrogen sulfide by a vapor phase catalytic reaction of sulfur dioxide and hydrogen sulfide.

W. “Terminal” shall mean the former refinery, terminal, and related assets formerly owned and/or operated by Farmland Industries, Inc. as the Phillipsburg Terminal and now owned and operated by Coffeyville Resources Terminal, LLC.

X. “Total Catalyst” shall mean all forms of catalyst added to the FCCU, including but not limited to base catalyst and equilibrium catalyst, but excluding Pollutant Reducing Catalyst Additive.

Y. “Weight % Pollutant Reducing Catalyst Additive Rate” shall mean 100

percent times the following quantity: the amount of pollutant reducing catalyst additive in pounds per day divided by the amount of Total Catalyst added in pounds per day.

#### IV. NO<sub>x</sub> EMISSIONS REDUCTIONS FROM FCCU

##### A. Option to Elect Compliance with Alternative NO<sub>x</sub> Limits

9. In lieu of the NO<sub>x</sub> Reducing Catalyst Additive Program set forth in Paragraphs 11 through 22 below, at any time between the Date of Lodging of this Consent Decree and December 31, 2010, CRRM may elect to comply with the following alternative NO<sub>x</sub> emission limits on the FCCU exhaust stream:

- ° 20 ppmvd @ 0% O<sub>2</sub> on a 365 day rolling average basis, and
- ° 40 ppmvd @ 0% O<sub>2</sub> on a seven (7) day rolling average basis

NO<sub>x</sub> emissions during periods of Start-up, Shutdown, or Malfunction shall not be used in determining compliance with the emission limit of 40 ppmvd @ 0% O<sub>2</sub> on a seven (7) day rolling average basis, provided that during such periods, CRRM implements good air pollution control practices to minimize NO<sub>x</sub> emissions.

10. This election shall be effective by written notification by CRRM to EPA and KDHE. Compliance with the 20/40 ppmvd alternative NO<sub>x</sub> limits shall commence immediately upon notification to EPA and KDHE of the decision to comply with the alternative limits.

##### B. Interim NO<sub>x</sub> Catalyst Additive Program

11. Unless and until CRRM elects to comply with the alternative NO<sub>x</sub> limits allowed by Subsection IV.A, above, CRRM shall use NO<sub>x</sub> Reducing Catalyst Additives as set forth below.

##### i. NO<sub>x</sub> Baseline Data and NO<sub>x</sub> Model

12 By no later than March 31, 2007, CRRM shall submit to EPA and KDHE a report of 12 months of baseline data and a report describing a model to predict uncontrolled NO<sub>x</sub> concentration and mass emission rate from the FCCU. The baseline time period shall begin on January 1, 2006 and end on December 31, 2006. The baseline data shall include all data considered in development of the model on a daily average basis and at a minimum, the following data on a daily average basis:

- (a) Regenerator flue gas temperature;
- (b) Coke burn rate in pounds per hour;
- (c) FCCU feed rate in barrels per day;
- (d) FCCU feed API gravity;
- (e) FCCU feed sulfur and basic nitrogen content as a weight %, except that if after 30 days of daily monitoring of the FCCU feed nitrogen content, the variability of feed nitrogen is less than one standard deviation from the mean, CRRM may commence monitoring and recording the feed nitrogen content through daily sampling composited on a weekly basis for the remainder of the baseline period; in addition, after this 30 day period, CRRM may propose, for EPA approval, alternate nitrogen data collection requirements;
- (f) Estimated percentage, and where available, actual percentage of each type of FCCU feed component (i.e. atmospheric gas oil, vacuum gas oil, atmospheric tower bottoms, vacuum tower bottoms, etc.);
- (g) Estimated percentage, and where available, actual percentage by volume of the FCCU feed that is hydrotreated;
- (h) CO boiler firing rate, fuel type and fuel sulfur content, if applicable;

- (i) CO boiler combustion temperature, if applicable;
- (j) Total catalyst addition rate;
- (k) NOx and SO2 Reducing Catalyst Additive addition rates, conventional combustion promoter addition rates, and/or Low NOx Combustion Promoter addition rates; and
- (l) Hourly and daily SO2, NOx, CO and O2 concentrations

Upon request by EPA, Coffeyville Resources shall submit any additional available data that EPA determines it needs to evaluate the model. The report describing the model shall include a description of how the model was developed including which parameters were considered, why parameters were eliminated, efforts and results of model validation, and statistical methods used to arrive at the equation to predict uncontrolled NOx concentration and mass emission rate.

ii. NOx Reducing Catalyst Additives - Optimization Study

13. By no later than March 31, 2007, CRRM shall submit, for EPA approval, a proposed protocol consistent with the requirements of Appendix I for optimization studies to establish the optimized NOx Reducing Additive rate for the FCCU. The protocol shall include identification of at least two NOx reducing catalyst additives commercially available that are likely to perform the best in the FCCU, methods to calculate effectiveness, cost effectiveness, methods for baseloading, and percent additive to be used at each increment tested. EPA will either approve one of the proposed catalysts or approve another catalyst that is commercially available. Only NOx reducing catalyst additives approved by EPA shall be used to fulfill the requirements of the Consent Decree. In the event CRRM disputes EPA's catalyst selection, the issue is subject to dispute resolution.

14 Within 30 days of EPA approval of the optimization protocol, CRRM shall



commence a six month optimization study of the NOx Reducing Additive in accordance with the approved protocol and Appendix I.

15. Within 30 days of completion of the optimization study, CRRM shall submit a report to EPA and KDHE that contains the results of the optimization study and propose an optimized addition rate of the NOx Reducing Catalyst Additive to be used for the demonstration period for EPA approval. Upon request by EPA, CRRM shall submit any additional available data that EPA determines it needs to evaluate the optimization study.

iii. NOx Reducing Catalyst Additives - Demonstration

16. Within 30 days of EPA approval of the optimization study report, CRRM shall commence an 18 month demonstration of the EPA approved NOx Reducing Additive at the EPA approved optimization addition rates

17. During the demonstration period, CRRM shall add NOx Reducing Catalyst Additive and operate the FCCU, in a manner that minimizes NOx emissions to the extent practicable and without interfering with conversion or processing rates

18. Within 90 days of completion of the demonstration, CRRM shall submit a report to EPA and KDHE that contains the results of the demonstration ("NOx Additive Demonstration Report"). The NOx Additive Demonstration Report shall include, at a minimum, the NOx and O2 CEMS data recorded during the Demonstration Period and all applicable baseline data on a daily average basis (or as otherwise specified in Paragraph 12) for the Demonstration Period.

iv. Establishing NOx Interim Emission Limits

19. In the NOx Additive Demonstration Report, CRRM shall propose a short term (i.e. 24-hour or 7-day rolling average) and a long-term (365-day rolling average) concentration-based (ppmvd) NOx emission limit as measured at 0% O2. CRRM shall comply with the

emission limits it proposes for the FCCU immediately upon submission of the NOx Additive Demonstration Report and shall add NOx Reducing Catalyst Additive at no less than the optimized rate. CRRM shall continue to comply with these limits and add NOx Reducing Catalyst Additive at no less than the optimized rate until CRRM is required to comply with the emissions limits set by EPA pursuant to Paragraph 20, below. Upon request by EPA, CRRM shall submit any additional, available data that EPA determines it needs to evaluate the demonstration.

20. EPA will use the data collected about the FCCU during the baseline period, the Optimization Period, and the Demonstration Period, as well as all other available and relevant information, to establish limits for NOx emissions from the FCCU. EPA will establish a short term (e.g. 24-hour or 7-day rolling average) and a 365-day rolling average concentration-based (ppmvd) NOx emission limits corrected to 0% oxygen. EPA will determine the limits based on: (i) the level of performance during the baseline, Optimization and Demonstration periods; (ii) a reasonable certainty of compliance; and (iii) any other available and relevant information. EPA will notify CRRM of its determination of the concentration-based NOx emissions limits and averaging times for the FCCU. CRRM shall immediately (or within ninety (90) days, if EPA's limit is more stringent than the limit proposed by CRRM) operate the FCCU so as to comply with the EPA-established emission limits.

21. NOx emissions during periods of Startup, Shutdown, or Malfunction shall not be used in determining compliance with the short-term NOx emission limit established pursuant to Paragraphs 19 and 20, provided that during such periods, CRRM implements good air pollution control practices to minimize NOx emissions.

22. In lieu of utilizing NOx reducing catalyst additives at the optimized NOx

reducing catalyst additive addition rate, at any time after the final limits have been established pursuant to Paragraph 20, CRRM may elect to comply with the NOx emission limit at the FCCU using other means. This election shall be effective upon written notification by CRRM to EPA and KDHE.

C. Compliance with Final NOx Emission Limits

23. By no later than December 31, 2010, CRRM shall install Selective Catalytic Reduction (SCR), LoTOx or another alternative technology approved in writing by EPA and KDHE on the FCCU to comply with the following NOx emissions limits on the FCCU exhaust stream:

- ° 20 ppmvd @ 0% O2 on a 365 day rolling average basis, and
- ° 40 ppmvd @ 0% O2 on a seven (7) day rolling average basis.

NOx emissions during periods of Start-up, Shutdown, or Malfunction shall not be used in determining compliance with the emission limit of 40 ppmvd @ 0% O2 on a seven (7) day rolling average basis, provided that during such periods CRRM implements good air pollution control practices to minimize NOx emissions.

24. By no later than June 1, 2008, CRRM shall submit a project schedule to EPA and KDHE for the installation of the NOx air pollution control technology selected to be installed on the FCCU to comply with the NOx emission limits in Paragraph 23. The project schedule will be enforceable under this Consent Decree and shall include dates for the following milestone events:

- (a) Date for final selection of NOx control technology to be installed on FCCU,

- (b) Start date for the procurement of the NOx air pollution controls,
- (c) Start of construction date,
- (d) Initial start-up date,
- (e) Date of compliance with NOx emission limits

#### V. SO2 EMISSIONS REDUCTIONS FROM FCCU

##### A. Option to Elect Compliance with Alternative SO2 Limits

25. In lieu of the SO2 Reducing Catalyst Additive Program set forth in Paragraphs 27 through 41 below, at any time between the Date of Lodging of this Consent Decree and December 31, 2010, CRRM may elect to comply with the following alternative SO2 limits on the FCCU exhaust stream:

- ° 25 ppmvd @ 0% O2 on a 365 day rolling average basis, and
- ° 50 ppmvd @ 0% O2 on a seven (7) day rolling average basis

SO2 emissions during periods of Start-up, Shutdown, or Malfunction shall not be used in determining compliance with the emission limit of 50 ppmvd @ 0% O2 on a seven (7) day rolling average basis, provided that during such periods CRRM implements good air pollution control practices to minimize SO2 emissions.

26. This election shall be effective by written notification by CRRM to EPA and KDHE. Compliance with the 25/50 ppmvd alternative SO2 limits shall commence immediately upon notification to EPA and KDHE of the decision to comply with the alternative limits

##### i. Pre Interim SO2 Reducing Catalyst Additive Program

27. Within 30 days of closing, CRRM shall add SO2 Reducing Catalyst Additive to the FCCU at a rate of 4% by weight of the Total Catalyst make up rate

28. By no later than July 1, 2004, CRRM shall add SO2 Reducing Catalyst Additive to the FCCU at a rate of 5% by weight of the Total Catalyst make up rate.

29. By no later than September 1, 2004, CRRM shall submit, for EPA approval, at least two SO2 Reducing Catalyst Additives commercially available that are likely to perform the best in the FCCU. EPA will either approve one of the proposed catalysts or approve another catalyst that is commercially available. Only SO2 reducing catalyst additives approved by EPA shall be used to fulfill the requirements of this Consent Decree, with the exception of Paragraphs 27 and 28 above. In the event CRRM disputes EPA's catalyst selection, the issue is subject to dispute resolution.

30. By no later than January 1, 2005, CRRM shall add EPA approved SO2 Reducing Catalyst Additive to the FCCU at a rate of 5% by weight of the Total Catalyst make up rate.

ii. Interim SO2 Catalyst Additive Program

31. Unless and until CRRM elects to comply with the alternative SO2 limits allowed by Subsection V.A, above, CRRM shall use SO2 Reducing Catalyst Additives set forth below.

a. SO2 Baseline Data and SO2 Model

32. By no later than February 28, 2005, CRRM shall submit to EPA and KDHE a report of baseline data and a report describing a model to predict uncontrolled SO2 concentration and mass emission rate from the FCCU. The baseline time period shall begin no later than 30 days after closing and end on December 31, 2004. The baseline data shall include all data considered in development of the model on a daily average basis and at a minimum, the following data on a daily average basis:

- (a) Regenerator flue gas temperature;
- (b) Coke burn rate in pounds per hour;

- (c) FCCU feed rate in barrels per day;
- (d) FCCU feed API gravity;
- (e) FCCU feed sulfur content as a weight %;
- (f) Estimated percentage, and where available, actual percentage of each type of FCCU feed component (i.e. atmospheric gas oil, vacuum gas oil, atmospheric tower bottoms, vacuum tower bottoms, etc.);
- (g) Estimated percentage, and where available, actual percentage by volume of the FCCU feed that is hydrotreated;
- (h) CO boiler firing rate, fuel type and fuel sulfur content, if applicable;
- (i) CO boiler combustion temperature, if applicable;
- (j) Total catalyst addition rate;
- (k) NOx and SO2 Reducing Catalyst Additive addition rates, conventional combustion promoter addition rates, and/or Low NOx Combustion Promoter addition rates; and
- (l) Hourly and daily SO2, NOx, CO and O2 concentrations.

Upon request by EPA, CRRM shall submit any additional available data that EPA determines it needs to evaluate the model. The report describing the model shall include a description of how the model was developed including which parameters were considered, why parameters were eliminated, efforts and results of model validation, and statistical methods used to arrive at the equation to predict uncontrolled SO2 concentration and mass emission rate.

### iii. SO2 Reducing Catalyst Additives - Optimization Study

33. By no later than February 28, 2005, CRRM shall submit, for EPA approval, a proposed protocol consistent with the requirements of Appendix I for optimization studies to establish the optimized SO2 Reducing Additive rate for the FCCU. The protocol shall include identification of at least two SO2 reducing catalyst additives commercially available that are

likely to perform the best in the FCCU, methods to calculate effectiveness, cost effectiveness, methods for baseloading, and percent additive to be used at each increment tested. EPA will either approve one of the proposed catalysts or approve another catalyst that is commercially available. In the event CRRM disputes EPA's catalyst selection, the issue is subject to dispute resolution.

34. Within 30 days of EPA approval of the optimization protocol, CRRM shall commence an eight month optimization study of the SO<sub>2</sub> Reducing Additive in accordance with the approved protocol and Appendix 1.

35. Within 30 days of completion of the optimization study, CRRM shall submit a report to EPA and KDHE that contains the results of the optimization study and propose an optimized addition rates of the SO<sub>2</sub> Reducing Catalyst Additive to be used for the demonstration period for EPA approval. Upon request by EPA, CRRM shall submit any additional available data that EPA determines it needs to evaluate the optimization study.

iv. SO<sub>2</sub> Reducing Catalyst Additives - Demonstration

36. Within 30 days of EPA approval of the optimization study report, CRRM shall commence an 18 month demonstration of the EPA approved SO<sub>2</sub> Reducing Additive at the EPA approved optimization addition rate.

37. During the demonstration period, CRRM shall add SO<sub>2</sub> Reducing Catalyst Additive and operate the FCCU in a manner that minimizes SO<sub>2</sub> emissions to the extent practicable and without interfering with conversion or processing rates.

38. Within 90 days of completion of the demonstration, CRRM shall submit a report to EPA and KDHE that contains the results of the demonstration ("SO<sub>2</sub> Additive Demonstration Report"). The SO<sub>2</sub> Additive Demonstration Report shall include, at a minimum, the SO<sub>2</sub> and

O2 CEMS data recorded during the Demonstration Period and all applicable baseline data on a daily average basis for the Demonstration Period.

v. Establishing SO2 Interim Emission Limits

39. In the SO2 Additive Demonstration Report, CRRM shall propose a short term 7-day rolling average and a long-term 365-day rolling average concentration-based (ppmvd) SO2 emission limit as measured at 0% O2. CRRM shall comply with the emission limits it proposes for the FCCU immediately upon submission of the SO2 Additive Demonstration Report and shall add SO2 Reducing Catalyst Additive at no less than the optimized rate. CRRM shall continue to comply with these limits and add SO2 Reducing Catalyst Additive at no less than the optimized rate until CRRM is required to comply with the emissions limits set by EPA pursuant to Paragraph 40, below. Upon request by EPA, CRRM shall submit any additional, available data that EPA determines it needs to evaluate the demonstration.

40. EPA will use the data collected about the FCCU during the baseline period, the Optimization Period, and the Demonstration Period, as well as all other available and relevant information, to establish limits for SO2 emissions from the FCCU. EPA will establish a short term 7-day rolling average and a 365-day rolling average concentration-based (ppmvd) SO2 emission limits corrected to 0% oxygen. EPA will determine the limits based on: (i) the level of performance during the baseline, Optimization and Demonstration periods; (ii) a reasonable certainty of compliance; and (iii) any other available and relevant information. EPA will notify CRRM of its determination of the concentration-based SO2 emissions limits and averaging times for the FCCU. CRRM shall immediately (or within ninety (90) days, if EPA's limit is more stringent than the limit proposed by CRRM) operate the FCCU so as to comply with the EPA-established emission limits.



41. In lieu of utilizing SO<sub>2</sub> reducing catalyst additives at the optimized SO<sub>2</sub> reducing catalyst additive addition rate, at any time after the final limits have been established pursuant to Paragraphs 39 and 40 CRRM may elect to comply with the SO<sub>2</sub> emission limit at the FCCU using other means. This election shall be effective upon written notification by CRRM to EPA and KDHE.

B. Compliance with Final SO<sub>2</sub> Emission Limits

42. By no later than December 31, 2010, CRRM shall install a Wet Gas Scrubber or another alternative technology approved in writing by EPA and KDHE on the FCCU to comply with the following SO<sub>2</sub> emissions limits on the FCCU exhaust stream:

- ° 25 ppmvd @ 0% O<sub>2</sub> on a 365 day rolling average basis, and
- ° 50 ppmvd @ 0% O<sub>2</sub> on a seven (7) day rolling average basis.

43. By no later than June 1, 2008, CRRM shall submit a project schedule to EPA and KDHE for the installation of the SO<sub>2</sub> air pollution control technology selected to be installed on the FCCU to comply with the SO<sub>2</sub> emission limits in Paragraph 42. The project schedule will be enforceable under this Consent Decree and shall include dates for the following milestone events:

- a. Date for final selection of SO<sub>2</sub> control technology to be installed on FCCU,
- b. Start date for the procurement of the SO<sub>2</sub> air pollution controls,
- c. Start of construction date,
- d. Initial start-up date,
- e. Date of compliance with SO<sub>2</sub> emission limits.

## **VI. PM EMISSIONS REDUCTIONS FROM FCCU**

44. By no later than December 31, 2010, CRRM shall comply with an FCCU emission limit of 0.5 pounds of PM per 1,000 pounds of coke burned on a 3-hour average basis through the operation of an electrostatic precipitator (ESP) or other means. Emissions during periods of Startup, Shutdown, or Malfunction shall not be used in determining compliance with the emission limits of 0.5 pounds of PM per 1,000 pounds of coke burned on a 3-hour average basis, provided that during such periods CRRM implements good air pollution control practices to minimize PM emissions.

45. By no later than three (3) months after the PM limit in Paragraph 44 becomes effective, CRRM shall submit a stack test protocol consistent with 40 C.F.R. § 60.106(B)(2) to EPA and KDHE for review and for KDHE approval.

46. By no later than six (6) months after the PM limit in Paragraph 44 becomes effective, CRRM shall conduct the first stack test to demonstrate compliance with the PM emission limit. CRRM shall conduct two additional stack tests at the FCCU to demonstrate compliance with the PM emission limit, two and four years after the first stack test. Stack test results shall be submitted to EPA and KDHE 60 days after completion of the test.

## **VII. CONTINUOUS EMISSIONS MONITORS**

47. By no later than six (6) months after the Date of Lodging of the Consent Decree, CRRM shall use NO<sub>x</sub>, SO<sub>2</sub> and O<sub>2</sub> CEMs to monitor performance of the FCCU and to determine compliance with the terms and conditions of this Consent Decree. The CEMs will be used to demonstrate compliance with the NO<sub>x</sub> and SO<sub>2</sub> emission limits established pursuant to Sections IV and V.

48. [INTENTIONALLY LEFT BLANK]

49. CRRM shall certify, calibrate, maintain, and operate all CEMs required by this Consent Decree in accordance with the requirements of 40 C.F.R. § 60.13, that are applicable to CEMs (excluding those provisions applicable only to Continuous Opacity Monitoring Systems) and Part 60 Appendices A and F, and the applicable performance specification test of 40 C.F.R. Part 60 Appendix B. With respect to 40 C.F.R. Part 60 Appendix F, in lieu of the requirements of 40 C.F.R. Part 60 Appendix F §§ 5.1.1, 5.1.3 and 5.1.4, CRRM shall conduct either a Relative Accuracy Audit (“RAA”) or a Relative Accuracy Test Audit (“RATA”) on each CEMs at least once every three (3) years. CRRM shall also conduct Cylinder Gas Audits (“CGA”) each calendar quarter during which a RAA or a RATA is not performed.

50. CRRM shall make all CEMs and process data available to EPA and KDHE upon request.

#### **VIII. BENZENE WASTE NESHAP**

51. Benzene Waste NESHAP Program Enhancements. In addition to continuing to comply with all applicable requirements of 40 C.F.R. Part 61, Subpart FF (“Benzene Waste NESHAP” or “Subpart FF”), CRRM agrees to undertake, at the refinery, the measures set forth in Paragraphs 51 B through 51 N to ensure continuing compliance with Subpart FF and to minimize or eliminate fugitive benzene waste emissions.

A. Current Compliance Status. As of the Date of Lodging of this Consent Decree, CRRM believes that the refinery has a Total Annual Benzene (“TAB”) of less than 10 Mg/yr. CRRM will review and verify the TAB at the refinery consistent with the requirements of Paragraph 51.C

B. Refinery Compliance Status Changes. If at any time from the Date of

Lodging of the Consent Decree until its termination, the refinery is determined to have a TAB equal to or greater than 10 Mg/yr, CRRM shall comply with the compliance option set forth at 40 C.F.R. § 61.342(e) (hereinafter referred to as the "6 BQ compliance option").

C One-Time Review and Verification of the Refinery's TAB.

i. Phase One of the Review and Verification Process By no later than September 30, 2005, CRRM shall complete a review and verification of the TAB of the refinery. For the refinery, the review and verification process shall include, but is not limited to: (i) an identification of each waste stream that is required to be included in the refinery's TAB (e.g., slop oil, tank water draws, spent caustic, desalter rag layer dumps, desalter vessel process sampling points, other sample wastes, maintenance wastes, and turnaround wastes); (ii) a review and identification of the calculations and/or measurements used to determine the flows of each waste stream for the purpose of ensuring the accuracy of the annual waste quantity for each waste stream; (iii) an identification of the benzene concentration in each waste stream, including sampling for benzene concentration at no less than 10 waste streams consistent with the requirements of 40 C.F.R. § 61.355(c)(1) and (3); provided however, that previous analytical data or documented knowledge of waste streams may be used, 40 C.F.R. § 61.355(c)(2), for streams not sampled; and (iv) an identification of whether or not the stream is controlled consistent with the requirements of Subpart FF. By no later than sixty (60) days following the completion of Phase One of the review and verification process, CRRM shall submit a Benzene Waste NESHAP Compliance Review and Verification report ("BWN Compliance Review and Verification Report") that sets forth the results of Phase One, including but not limited to the items identified in (i) through (iv) of this Paragraph 51.C.i.

ii. Phase Two of the Review and Verification Process. Based on EPA's review of the BWN Compliance Review and Verification Report(s), EPA may select up to 20 additional waste streams at the refinery for sampling for benzene concentration. CRRM will conduct the required sampling and submit the results to EPA within ninety (90) days of receipt of EPA's request. CRRM will use the results of this additional sampling to recalculate the TAB and to amend the BWN Compliance Review and Verification Report, as needed. To the extent that EPA requires CRRM to re-sample a Phase One waste stream as part of this Phase Two review, CRRM may average the results of the two sampling events. CRRM shall submit an amended BWN Compliance Review and Verification Report within ninety (90) days following the date of the completion of the required Phase Two sampling, if Phase Two sampling is required by EPA.

D. Implementation of Actions Necessary to Correct Non-Compliance

i. Amended TAB Reports If the results of the BWN Compliance Review and Verification Report(s) indicate(s) that the refinery has failed to file the reports required by 40 C.F.R. § 61.357(c), or that the refinery's most recently-filed report is inaccurate and/or does not satisfy the requirements of Subpart FF, CRRM shall submit, by no later than sixty (60) days after completion of the BWN Compliance Review and Verification Report(s), an amended TAB report to the Applicable State Agency. CRRM's BWN Compliance Review and Verification Report(s) shall be deemed an amended TAB report for purposes of Subpart FF reporting to EPA.

ii. If the results of the BWN Compliance Review and Verification Report indicate that the refinery has a TAB of over 10 Mg/yr, CRRM shall submit to the Applicable Federal and State Agencies by no later than 180 days after completion of the BWN

Compliance Review and Verification Report, a plan that identifies with specificity the compliance strategy and schedule that CRRM will implement to ensure that the refinery complies with the 6 BQ compliance option as soon as practicable

iii. Review and Approval of Plans Submitted Pursuant to Paragraph

51.D.ii. Any plan submitted pursuant to Paragraph 51 D ii shall be subject to the approval of, disapproval of, or modification by EPA, which shall act in consultation with the Applicable State Agency. Within sixty (60) days after receiving any notification of disapproval or request for modification from EPA, CRRM shall submit to the Applicable Federal and State Agencies a revised plan that responds to all identified deficiencies. Upon receipt of approval or approval with conditions, CRRM shall implement the plan. Disputes arising under this Paragraph 51 D iii shall be resolved in accordance with the dispute resolution provisions of this Decree.

iv. Certification of Compliance with the 6 BQ Compliance Option.

By no later than thirty (30) days after completion of the implementation of all actions, if any, required pursuant to Paragraph 51.D.ii or pursuant to Paragraph 51 I.vi to come into compliance with the 6 BQ Compliance Option, CRRM shall submit a report to the Applicable Federal and State Agencies that, as to the refinery, the refinery complies with the Benzene Waste NESHAP.

E. Annual Program. CRRM shall establish an annual program of reviewing process information for the refinery, including but not limited to construction projects, to ensure that all new benzene waste streams are included in the refinery's waste stream inventory.

F. Benzene Spills. For each spill at the refinery, CRRM shall review such spills to determine if benzene waste was generated. CRRM shall include benzene generated by such spills in the TAB for the refinery.

G. Training.

i. If and when the refinery's TAB reaches 1 Mg/yr or more, then by no later than 180 days from the receipt of the information showing that the refinery's TAB has reached or exceeded 1 Mg/yr, CRRM shall develop and begin implementation of annual (i.e., once each calendar year) training for all employees asked to draw benzene waste samples.

ii. If and when the refinery's TAB reaches 10 Mg/yr or more, CRRM shall complete the development of standard operating procedures for all control equipment used to comply with the Benzene Waste NESHAP. CRRM shall complete an initial training program regarding these procedures for all operators assigned to this equipment. Comparable training shall be provided to any persons who subsequently become operators, prior to their assumption of this duty. "Refresher" training shall be performed on a periodic basis. CRRM shall propose a schedule for the initial and refresher training at the same time that CRRM proposes a plan, pursuant to either Paragraph 51 D ii, or Paragraph 51 J vi, that identifies the compliance strategy and schedule that CRRM will implement to come into compliance with the 6 BQ compliance option.

iii. As part of CRRM's training program, CRRM must ensure that the employees of any contractors hired to perform the requirements of this Paragraph are properly trained to implement all provisions of this Paragraph at the refinery.

H. Waste/Slop/Off-Spec Oil Management

i. By no later than June 30, 2005, CRRM shall submit to the Applicable Federal and State Agencies, for the refinery, schematics that: (a) depict the waste management units (including sewers) that handle, store, and transfer waste/slop/off-spec oil streams; (b) identify the control status of each waste management unit; and (c) show how such oil is transferred within the refinery. Representatives from CRRM and EPA thereafter shall

confer about the appropriate characterization of the refinery's waste/slop/off-spec oil streams for the waste management units handling such oil streams, for purposes of the refinery's TAB calculation. At a mutually-agreed upon time, CRRM shall submit, if necessary, revised schematics that reflect the agreements between EPA and CRRM regarding the characterization of these oil streams and the appropriate control standards.

ii. Organic Benzene Waste Streams. If and when the refinery's TAB reaches 10 Mg/yr and a compliance strategy is approved, all waste management units handling "organic" benzene wastes, as defined in Subpart FF, shall meet the applicable control standards of Subpart FF. If, as a result of the discussions between the EPA and CRRM, pursuant to Paragraph 51.H.i, EPA and CRRM agree that controls not already in place are necessary on any waste management unit handling organic benzene wastes, the Parties shall agree, in writing, to a schedule, not to exceed two years, for the completion of the installation of the necessary controls.

iii. Aqueous Benzene Waste Streams For purposes of calculating the refinery's TAB pursuant to the requirements of 40 C.F.R. § 61.342(a), CRRM shall include all waste/slop/off-spec oil streams that become "aqueous" until such streams are recycled to a process or put into a process feed tank (unless the tank is used primarily for the storage of wastes). If and when the refinery's TAB reaches 10 Mg/yr, then, for purposes of complying with the 6BQ compliance option, all waste management units handling aqueous benzene waste streams shall either meet the applicable control standards of Subpart FF or shall have their uncontrolled benzene quantity count toward the applicable 6 megagram limit.

iv. Plan to Quantify Uncontrolled Waste/Slop/Off-Spec Oil Streams  
By no later than ninety (90) days after EPA has approved the schematics (revised if necessary)



required under Paragraph 51.H.i., CRRM shall submit, for the refinery, a plan(s) to quantify waste/slop/off-spec oil movements for all benzene waste streams which are not controlled. EPA will review the plan and may recommend revisions consistent with Subpart FF. Upon plan approval, CRRM shall maintain records quantifying such movements.

v. Disputes under this Paragraph 51.H. shall be resolved in accordance with the dispute resolution provisions of this Consent Decree.

I. End of Line Sampling (If the Refinery is Found to Have a TAB of 10 Mg/yr or More). The provisions of this Paragraph 51.I shall apply after the refinery's TAB reaches or exceeds 10 Mg/yr and after the refinery has completed implementation of an approved compliance plan submitted pursuant to either Paragraph 51.D.ii. or Paragraph 51.J.vi. The provisions shall continue to apply until termination ("Applicability Dates for Paragraph 51.I."):

i. By no later than sixty (60) days after the certification required by Paragraph 51.D.iv, CRRM shall submit to EPA for approval a plan(s) for an "end of the line" ("EOL") determination of the benzene quantity in uncontrolled waste streams. A copy of this plan shall be submitted to the Applicable State Agency. The proposed plan of CRRM, as applicable, shall include, but not be limited to, sampling locations, methods for flow calculations, and the assumed volatilization rate(s) to be used in calculating the uncontrolled benzene quantity. Any disputes regarding plan approval under this Paragraph 51.I. shall be resolved in accordance with the dispute resolution provisions of the Consent Decree.

ii. If, during the Applicability Dates for Paragraph 51.I, changes in processes, operations, or other factors lead CRRM, as applicable, to conclude that the approved sampling locations, approved methods for determining flow calculations, and/or assumed

volatilization rates no longer provide an accurate measure of the refinery's EOL benzene quantity, CRRM shall submit a revised plan to EPA for approval. A copy of this revised plan also shall be provided to the Applicable State Agency

iii. On a monthly basis, CRRM shall conduct EOL sampling, commencing during the first month of the first full calendar quarter after CRRM receives written approval from EPA of the sampling plan for the refinery. CRRM shall take, and have analyzed, three representative samples from each approved sampling location. CRRM shall use the average of these three samples as the benzene concentration for the stream at the approved location. Based on the EOL monthly sampling results, the approved flow calculations, and the volatilization assumptions, CRRM shall calculate the sum of the EOL benzene quantity for the three months contained within the respective quarter. Nothing in this Paragraph 51 I shall preclude CRRM from taking representative samples more frequently within any calendar month, provided that CRRM identifies the basis for the additional samples. Such samples shall be included in calculating the average monthly EOL benzene quantity

iv. If the sum of the EOL benzene quantity for the three month period contained within a quarter equals or exceeds 1.2 Mg, CRRM shall take and have analyzed three representative samples, drawn on separate days during the subsequent calendar quarter, of each uncontrolled stream containing benzene over 0.05 Mg/yr, as identified in the later of (i) the final BWN Compliance Review and Verification Report; or (ii) the most recently submitted TAB report (hereinafter "Sampling of >0.05 Streams"). CRRM shall undertake Sampling of >0.05 Streams for the purpose of trying to identify the cause or source of the potentially elevated benzene quantities

v. CRRM shall continue to undertake Sampling of >0.05 Streams in the second quarter after the EOL benzene quantity exceeded 1.2 Mg unless either: (i) the EOL benzene quantity in the first quarter of the Sampling of > 0.05 Streams demonstrates that the refinery's EOL benzene quantity, prorated on a yearly basis, will be below 4.8 Mg/yr; or (ii) CRRM discovers and corrects the cause of the potentially elevated benzene quantities and EPA concurs in the diagnosis and corrective measures of CRRM.

vi. If the sum of the EOL benzene quantity for two consecutive quarters indicates that the EOL benzene quantity, prorated on a yearly basis, will exceed 4.8 Mg/yr, and CRRM has not discovered and corrected the cause of the potentially elevated benzene through the process of Sampling of >0.05 Streams, CRRM shall take and have analyzed three representative samples, drawn on separate days during the third calendar quarter, of each uncontrolled stream containing benzene over 0.03 Mg/yr. as identified in the later of (i) the final BWN Compliance Review and Verification Report; or (ii) most recently submitted TAB report (hereinafter "Sampling of > 0.03 Streams"). CRRM shall undertake Sampling of >0.03 Streams for the purpose of continuing to try to identify the cause or source of the potentially elevated benzene quantities.

vii. Sampling of >0.05 and/or >0.03 Streams shall not be required if CRRM advises EPA, and EPA concurs, that the potentially elevated benzene quantities can be attributed to an identifiable event, such as a spill to the sewer or a turnaround. After such an identifiable event, however, CRRM shall calculate its projected uncontrolled benzene quantity for the calendar year in which the event occurs. If that projection is greater than 6 mg/yr, then CRRM shall submit to EPA for approval a plan that either (a) identifies with specificity the compliance strategy and schedule that CRRM will implement to ensure that the refinery does not

exceed 6 Megagrams of uncontrolled benzene for the calendar year; or (b) if as a result of the quantity of benzene released during the event CRRM is unable to propose a plan to ensure that the refinery's uncontrolled benzene for the calendar year will be 6 Megagrams or less, then CRRM shall identify the actions to be taken to minimize the uncontrolled benzene for the remainder of the year. A copy of this plan shall be submitted to the Applicable State Agency. CRRM shall submit this plan within thirty (30) days after the end of the quarter which resulted in a projection of greater than 6 Mg/yr of uncontrolled benzene. Sampling of >0.05 and/or >0.03 Streams shall not excuse CRRM from continuing to take monthly EOL samples.

viii. If in three consecutive quarters (a) the sum of the benzene quantity indicates that the EOL benzene quantity, prorated on a yearly basis, will exceed 4.8 Mg; or (b) the sampling of >0.05 and/or >0.03 streams indicates that projected uncontrolled benzene for the calendar year will exceed 6 Megagrams, and CRRM has not discovered and corrected, with EPA's concurrence, the cause of the potentially elevated benzene through the process of Sampling of >0.05 and >0.03 Streams, then, in the fourth quarter, CRRM shall retain a third party contractor to undertake a comprehensive TAB study and compliance review ("Third-Party TAB Study and Compliance Review"). By no later than the last day of the fourth quarter, CRRM shall submit a proposal to the Applicable Federal and State Agencies that identifies the contractor, the contractor's scope of work, and the contractor's schedule for the Third-Party TAB Study and Compliance Review. Unless, within thirty (30) days after EPA receives this proposal, EPA disapproves or seeks modifications, CRRM shall authorize the contractor to commence work. By no later than thirty (30) days after CRRM receives the results of the Third-Party TAB Study and Compliance Review, CRRM shall submit the results to the Applicable Federal and State Agencies. EPA, the Applicable State Agency, CRRM subsequently shall

discuss informally the results of the Third-Party TAB Study and Compliance Review. By no later than one-hundred twenty (120) days after CRRM receives the results of the Third-Party TAB Study and Compliance Review, or such other time as CRRM and EPA may agree, CRRM shall submit to EPA for approval a plan that addresses any deficiencies identified in the Third-Party TAB Study and Compliance Review and any deficiencies that EPA brought to the attention of CRRM as a result of the Third-Party TAB Study and Compliance Review. A copy of this plan shall be submitted to the Applicable State Agency. The review and approval of this Plan shall be done in accordance with Paragraph 51.D iii of this Decree. Certification of Compliance shall be done in accordance with Paragraph 51.D.iv

J. End of Line Sampling (TAB is equal to or greater than 1 Mg/yr but less than 10 Mg/yr). The provisions of this Paragraph 51.J shall apply from the date that the final BWN Compliance Review and Verification Report submitted for the refinery pursuant to Paragraph 51.C shows that the refinery's TAB is equal to or greater than 1 Mg/yr but less than 10 Mg/yr, through the earlier of: (1) the time that the refinery reaches a TAB of 10 Mg/yr or more (in which case, the provisions of Paragraph 51.I shall begin to apply); or (2) termination of the Consent Decree.

i. CRRM shall once per calendar year, conduct sampling, consistent with the requirements of 40 C.F.R. § 61.355(c)(1) and (3), of all waste streams containing benzene that contributed 0.05 Mg/yr or more to the TAB set forth in the final BWN Compliance Review and Verification Report or in the previous year's TAB, whichever is later;

ii. By no later than ninety (90) days after the date of submitting the final BWN Compliance Review and Verification Report, representatives from EPA and the Applicable State Agency shall meet at the refinery with representatives from CRRM for the

purpose of identifying an appropriate procedure for conducting EOL sampling and measuring EOL benzene quantities at the refinery. EPA, the Applicable State Agency, and CRRM shall confer about potential EOL sample locations and shall review process and flow information and oil movement transfers. By no later than sixty (60) days after EPA and the Applicable State Agency have met with CRRM at the refinery, CRRM shall submit a plan to EPA for approval that contains proposed sampling locations and methods for flow calculations to be used in the EOL determination of benzene quantity. A copy of this plan shall be submitted to the Applicable State Agency. Any disputes regarding plan approval under this Paragraph 51.1 shall be resolved in accordance with the dispute resolution provisions of this Consent Decree. If, during the life of this Consent Decree, changes in processes, operations, or other factors lead CRRM to conclude that either the approved sampling locations and/or the approved methods for determining flow calculations no longer provide an accurate measure of the refinery's EOL benzene quantity, CRRM shall submit a revised plan to EPA for approval. A copy of this revised plan also shall be submitted to the Applicable State Agency.

iii. On a quarterly basis, CRRM shall conduct an EOL determination of benzene quantity, commencing in the first full calendar quarter after CRRM receives written approval from EPA of the sampling plan for the refinery. CRRM shall take, and have analyzed, at least three representative samples from each approved sampling location. CRRM shall use the average of these three samples as the benzene concentration for the stream at the approved location. Based on the EOL quarterly sampling results and the approved flow calculations, CRRM shall calculate the quarterly EOL benzene quantity.

iv. If the quarterly EOL benzene quantity exceeds 2.5 Mg, CRRM shall submit to the Applicable Federal and State Agencies a plan that identifies with specificity

the actions that CRRM shall take, and the schedule for such actions, to ensure that the TAB for the refinery does not exceed 10 Mg in the calendar year.

v. On a quarterly basis, CRRM shall also calculate a projected calendar year TAB, utilizing all EOL results for that calendar year and any other information (such as process turnarounds) to undertake the projection. If the projected calendar year calculation of the TAB at the refinery equals or exceeds 10 Mg, CRRM shall submit to the Applicable Federal and State Agencies a plan that identifies with specificity the actions that CRRM shall take, and the schedule for such actions, to ensure that the TAB for the refinery does not exceed 10 Mg in the calendar year. CRRM shall submit this plan within thirty (30) days after the end of the quarter which resulted in a projection of greater than 10 Mg.

vi. If it appears that appropriate actions cannot be taken to ensure that the refinery maintains a TAB of under 10 Mg/yr, then CRRM shall retain a third party contractor to undertake a comprehensive TAB study and compliance review ("Third-Party TAB Study and Compliance Review"). At a mutually agreed upon date, CRRM shall submit a proposal to the Applicable Federal and State Agencies that identifies the contractor, the contractor's scope of work, and the contractor's schedule for the Third-Party TAB Study and Compliance Review. Unless, within thirty (30) days after EPA receives this proposal, EPA disapproves or seeks modifications, CRRM, as applicable, shall authorize the contractor to commence work. By no later than sixty (60) days after CRRM receives the results of the Third-Party TAB Study and Compliance Review, CRRM shall submit the results to the Applicable Federal and State Agencies. EPA, the Applicable State Agency, and CRRM subsequently shall discuss informally the results of the Third-Party TAB Study and Compliance Review. By no later than 120 days after CRRM receives the results of the Third-Party TAB Study and Compliance Review, or such

other time as CRRM and EPA may agree. CRRM shall submit to EPA for approval a plan that identifies with specificity the compliance strategy and schedule that CRRM will implement to ensure that the refinery complies with the 6BQ compliance option as soon as practicable. A copy of this Plan shall be submitted to the Applicable State Agency. The review and approval of this Plan shall be done in accordance with Paragraph 51 D iii of this Decree. Certification of Compliance shall be done in accordance with Paragraph 51 D iv.

K. Miscellaneous Measures

i. CRRM, as and to the extent applicable, shall comply with the Benzene Waste NESHAP provisions applicable to groundwater remediation conveyance systems if its refinery has such a system.

ii. The provisions of this Paragraph 51 K.ii shall apply after the refinery's TAB reaches or exceeds 10 Mg/yr (if prior to termination of the Consent Decree) and after the refinery has completed implementation of an approved compliance plan submitted pursuant to either Paragraph 51 D ii or Paragraph 51 J vi. The provisions shall continue to apply until termination of the Consent Decree. CRRM shall:

- a. Conduct monthly visual inspections of all water traps within the refinery's individual drain systems; and
- b. On a weekly basis, visually inspect all conservation vents or indicators on process sewers for detectable leaks; reset any vents where leaks are detected; and record the results of the inspections. After two (2) years of weekly inspections, and based upon an evaluation of the recorded results, CRRM may submit a request to the applicable EPA Region to modify the frequency of the inspections. EPA shall not unreasonably withhold its consent. Nothing in this Paragraph 51 K.ii.b. shall require CRRM to monitor conservation vents on fixed roof tanks.



- c. From the date that the final BWN Compliance Review and Verification Report submitted for the refinery pursuant to Paragraph 51 C shows that the refinery's TAB is equal to or greater than 1 Mg/yr but less than 10 Mg/yr, and through termination of this Consent Decree, CRRM shall identify and mark all area drains that are segregated stormwater drains.

L Projects/Investigations. Unless and until the TAB of the refinery reaches or exceeds 10 Mg/yr (or the Consent Decree is terminated), CRRM will not be required to undertake any projects or any investigations relating to the Benzene Waste NESHAP other than those required in Paragraphs 51 C - 51 K. Within 60 days of receipt of information indicating that the TAB of the refinery has reached or exceeded 10 Mg/yr, EPA and CRRM shall meet and confer to discuss and establish an appropriate project or investigation relating to the Benzene Waste NESHAP.

M Recordkeeping and Reporting Requirements for this Paragraph

i. Outside of the Reports Required under 40 C.F.R. § 61.357 and under the Semi-Annual Progress Report Procedures of Section XIV (Recordkeeping and Reporting). At the times specified in the applicable provisions of this Paragraph, CRRM shall submit, as and to the extent required, the following reports to the Applicable Federal and State Agencies:

- a. BWN Compliance Review and Verification Report (51.C.i ), as amended, if necessary (51.C.ii );
- b. Amended TAB Report, if necessary (51.D.i );
- c. Plan for the refinery to come into compliance with the 6 BQ compliance option upon discovering that its TAB equals or exceeds 10 Mg/yr through the BWN Compliance Review and Verification Report (51.D.ii ), or the Third-Party TAB Study and Compliance Review that may result from EOL sampling (51.I.vi );
- d. Compliance certification, if necessary (51.D.iv );
- e. Schematics of waste/slop/off-spec oil movements (51.H.i ), as revised, if necessary (51.H.i );

- f. Schedule to complete implementation of controls on waste management units handling organic benzene waste, if necessary (51 H.ii.);
- g. Plan to quantify uncontrolled waste/slop/off-spec oil movements (51.H.iv.)
- h. EOL Sampling Plans (51.I.i., 51.I.ii.), and revised EOL Sampling Plans, if necessary (51.I.ii., 51.I.ii.);
- i. Plan, if necessary, to ensure that uncontrolled benzene does not equal or exceed, as applicable, 6 or 10 Mg/yr -- or is minimized -- based on projected calendar year uncontrolled benzene quantities as determined through EOL sampling (51.I.vii., 51.I.iv.-v.)
- j. Proposal for a Third-Party TAB Study and Compliance Review, if necessary (51.I.viii., 51.I.vi.);
- k. Third-Party TAB Study and Compliance Review, if necessary (51.I.viii., 51.I.vi.);
- l. Plan to implement the results of the Third-Party TAB Study and Compliance Review, if necessary (51.I.viii., 51.I.vi.).

ii. As part of the Reports Required under the Semi-Annual Progress

Report Procedures of Section XIV (Recordkeeping and Reporting).

a. TAB is equal to or greater than 1 Mg/yr but less than 10

Mg/yr. From the date that the final BWN Compliance Review and Verification Report submitted for the refinery pursuant to Paragraph 51.C shows that the refinery's TAB is equal to or greater than 1 Mg/yr but less than 10 Mg/yr, until the earlier of: (1) the time that the refinery reaches a TAB of 10 Mg/yr or more (in which case, the provisions of Paragraph 51.M.ii.b shall begin to apply); or (2) termination of the Consent Decree, CRRM shall submit the following information in Semi-Annual Progress Reports pursuant to the requirements of Section XIV of this Consent Decree:

- (1) A description of the measures that it/they took to comply with the training provisions of Paragraph 51.G ;
- (2) The annual, non-EOL sampling required at the refinery pursuant to the requirements of Paragraph 51.I.i (this information shall be submitted in the first quarterly progress report for the first calendar quarter of each year);

- (3) The results of the quarterly EOL sampling undertaken pursuant to Paragraph 51.J.iii. for the calendar quarter. The report shall include a list of all waste streams sampled, the results of the benzene analysis for each sample, and the computation of the EOL benzene quantity for the respective quarter. The refinery shall identify whether the quarterly benzene quantity equals or exceeds 2.5 Mg and whether the projected calendar year benzene quantity equals or exceeds 10 Mg. If either condition is met, the refinery shall include in the quarterly report the plan required pursuant to Paragraph 51.J.iv and/or 51.J.v., and shall specifically seek EPA's concurrence in the plan.

b. TAB is 10 Mg/yr or More. The provisions of this Paragraph

51.M.ii.b shall apply after the refinery's TAB reaches or exceeds 10 Mg/yr (if this occurs prior to termination of the Consent Decree) and after the refinery has completed implementation of an approved compliance plan submitted pursuant to either Paragraph 51.D.ii. or Paragraph 51.L.vi.

The provisions shall continue to apply until termination. CRRM shall submit the following information in Quarterly Progress Reports pursuant to the requirements of Section IX of this Consent Decree:

- (1) A description of the measures that it took to comply with the training provisions of Paragraph 51.G.;
- (2) The results of the three months of monthly EOL sampling undertaken pursuant to Paragraph 51.J.iii. for the calendar quarter. The report shall include a list of all waste streams sampled, the results of the benzene analysis for each sample, and the computation of the EOL benzene quantity for the three months contained within the respective quarter;
- (3) If the quarter is one in which CRRM is required to undertake Sampling of >0.05 Streams or Sampling of >0.03 Streams at the refinery, CRRM also shall: (A) submit the results of those sampling events; (B) describe the actions that CRRM is taking to identify and correct the source of the potentially elevated benzene quantities; and (C) to the extent that CRRM identifies actions to correct the potentially elevated benzene quantities, specifically seek EPA's concurrence with the proposal of CRRM.

N Agencies to Receive Reports, Plans and Certifications Required in the Paragraph; Number of Copies. CRRM shall submit all reports, plans and certifications required to be submitted under this Paragraph to the Applicable Federal and State Agencies. For each submission, CRRM shall submit two copies to EPA, to the applicable Region, and to the Applicable State Agency. By agreement between each of the offices that are to receive the materials in this Paragraph and CRRM the materials may be submitted electronically.

#### **IX. SULFUR RECOVERY PLANTS**

52. The Sulfur Recovery Plants (SRPs) at the refinery, which includes both Sulfur Recovery Units Numbers 1 and 2, are and shall be affected facilities under NSPS Subpart J upon the Date of Lodging of this Consent Decree. CRRM shall comply with all applicable requirements of 40 C.F.R., Part 60, Subparts A and J upon the Date of Lodging of the Consent Decree.

53. All sour water stripper off-gas streams generated at the refinery shall be directed to the SRPs for processing and shall not be directed to the atmosphere. These requirements shall be incorporated into a construction permit as a federally enforceable permit condition.

#### **X. OTHER EMISSIONS CONTROLS**

##### **A. No. 2 Crude Unit Heater and No. 3 Vacuum Unit Heater**

54. By no later than January 1, 2007, CRRM shall reduce NOx emissions from the No. 2 Crude Unit Heater and No. 3 Vacuum Unit Heater and shall thereafter comply with an emission limit of 0.025 lb/mmBtu for each heater on a 3-hour average basis. These limits shall be incorporated into a construction permit as federally enforceable permit conditions.

55. By no later than six (6) months after the NOx emissions are reduced for each heater as set forth in Paragraph 54, CRRM shall demonstrate compliance with the emission limit by conducting an initial performance test using Method 7E or an EPA-approved alternative test method.

At least ninety (90) days prior to conducting the initial performance test, CRRM shall submit a stack test protocol to EPA and KDHE for review and for KDHE approval. The results of these tests shall be based upon the average of three (3) one hour testing periods in accordance with EPA methods at 40 C.F.R. Part 60 Appendix A and shall be submitted to EPA within 60 days of completion of the test.

B RADCO Crude Heater

56 By no later than the Date of Entry of this Consent Decree, CRRM shall limit NOx emissions from the RADCO Crude Heater to less than 81.7 tpy, which when considered with netting credits approved pursuant to the Consent Decree, results in emissions below the PSD applicability threshold set forth at 40 C.F.R. § 52.21. Prior to the stack test to be conducted pursuant to Paragraph 57, compliance with the 81.7 tpy NOx emission limit shall be determined by the following equation:

$$\sum_{i=1}^n [Q_i(\text{mmscf/month}) \times H_{gross,i}(\text{Btu/scf}) \times E_f(\text{lb}_{\text{NOx}}/\text{mmBtu}) \times (\text{ton}/2000 \text{ lbs})] < 81.7(\text{tpy})$$

where;

n = 12

$Q_i$  = total fuel gas usage (mmscf/month) in month  $i$

$H_{gross,i}$  = arithmetic average of all gross heating value measurements for refinery fuel gas in month  $i$

$E_f$  = 0.13lb/NOx per MMBtu (NOx emission factor)

CRRM shall monitor and record the gross By no later than February 28, 2007, CRRM shall submit a performance test protocol to EPA and KDHE for review and for KDHE approval. CRRM shall conduct the initial performance test within sixty days after KDHE approves the protocol and submit the results within sixty days of completion of the test heating value of the fuel gas combusted in the heater at least two (2) times per week. CRRM shall maintain records demonstrating the NOx emission limit in equation 1 has not been exceeded for a continuous 12 month period (12 month

rolling sum). Reports shall be updated monthly, no later than the last day of the following calendar month.

57. Nothing in this Consent Decree prohibits CRRM from generating or using emission reduction credits obtained by further restricting emissions from the RADCO heater below the 81.7 tpy limit through retrofitting the heater with enhanced controls, taking a federally enforceable permit limit restricting emissions below 81.7 tons per year or other means.

C. Pressure Relief Valves

58. In compliance with the notification provisions of 40 C.F.R. § 60.7, CRRM has provided a list to EPA and KDHE of pressure relief valves routed to a common header that are subject to Subpart GGG, attached as Appendix 2.

59. By the earlier of completion of the next refinery turnaround or December 31, 2006, CRRM shall complete the installation of rupture disks prior to all pressure relief valves routed to a common header that are subject to and not currently in compliance with 40 C.F.R. Part 60, Subparts A and GGG. By February 1, 2007, CRRM shall provide a list to EPA and KDHE of all pressure relief valves on which the installation of the rupture disks prior to the valves has been completed.

C. Flare on Coker Drum Depressurization Gas

60. By no later than the Date of Entry of the Consent Decree, CRRM shall maintain a water seal on the Coker Drum flare line that prevents the depressurization gas from bypassing the refinery's fuel gas collection compressor system and venting directly to the flare except for the combustion in the flare of process upset gases or fuel gas that is released to the flare as a result of relief valve leakage or other emergency malfunctions.

D. Flare on API Separator Off-Gas Scrubber

61 Farmland Industries, Inc. has applied to EPA for an alternative monitoring plan "AMP" under 40 C.F.R. § 60.13(i) for the gas stream from the API separator off-gas scrubber in order to demonstrate compliance with NSPS Subpart J for the flare, which request has been assumed by CRRM. Within 90 days of EPA's final determination of the approvability of the AMP, CRRM shall comply with the monitoring requirements of Subpart J through compliance with an EPA-approved AMP, the installation and operation of a hydrogen sulfide CEMs on the gas stream, or by process changes to re-route the gas stream.

E. No. 1 Crude Tower Vent Stream - VOC Streams

62. By no later than the Date of Entry of the Consent Decree, the No. 1 Crude Tower vent stream shall remain controlled, except during periods of startup, shutdown and malfunction.

F. Coal Usage – Coal Steam Boiler

63. By no later than the date of Lodging of this Consent Decree, CRRM shall restrict coal usage in the coal steam boiler to 9,433 tons or less of coal per year.

64. By no later than January 1, 2007, CRRM will strive to achieve a 53 ton reduction in actual NOx emissions. The NOx reductions shall be accomplished by the replacement of conventional burners with ultra-low NOx burners, or by other methods identified by CRRM. The amount of NOx reductions and the methods used to achieve the reductions shall be reported in the subsequent semi-annual report required pursuant to section XIV.

65. Beginning on January 1, 2007, CRRM may increase coal usage in the coal steam boiler to 15,416.5 tons of coal per year and beginning in January 1, 2008, coal usage may increase to 21,400 ton per year provided that the actual NOx reductions achieved pursuant to Paragraph 64 above were equal to or greater than 53 tpy. If the actual NOx emissions are reduced by less than 53

tpy, coal usage in the coal steam boiler shall be increased by the amount and time periods shown below:

<u>Date</u>	<u>Allowable Coal Usage (tpy)</u>
January 1, 2007	$9,433 + \{[(Y/53) \times 11,967] / 2\}$
January 1, 2008	$9,433 + [(Y/53) \times 11,967]$
Date of start-up NOx FCCU controls	21,400

where: Y = Actual NOx reductions pursuant to Paragraph 64 above.

#### XI. CLEAN AIR ACT PERMITTING

66. By no later than six (6) months from the Date of Entry of the Consent Decree, CRRM shall submit to KDHE for review and approval a protocol for modeling increment consumption and NAAQS impacts for NOx, SO2 and PM.

67. By no later than six (6) months from receipt of KDHE approval of a protocol, CRRM shall submit a construction permit application to KDHE which shall include:

- A. Modeling for increment consumption and NAAQS impacts for NOx, SO2, and PM, in accordance with the protocol approved by KDHE. If the increment consumption and/or modeling reveals that the refinery would have an impermissible impact on ambient air quality, the permit application shall include a compliance plan and schedule with short- and long-term operational restrictions and/or controls to reduce emissions as necessary to eliminate the impermissible impact on ambient air quality;
- B. A request to incorporate final emission limits, standards, and methods for demonstrating compliance, as applicable, from Sections IV, V, VI, IX and X from this Consent Decree into federally enforceable permit conditions; and
- C. A request to incorporate the limits set forth in Appendix 3 from all phases of the 1994-1995 refinery expansion project into federally enforceable permit conditions.

68. For purposes of claiming contemporaneous decreases for PSD permitting, as of the Date of Closing the baseline for NOx, SO2, VOC and PM at the refinery shall be zero (0)



CRRM shall not generate or use any NO<sub>x</sub>, SO<sub>2</sub>, VOC or PM emissions reductions that result from any projects conducted, controls required, or limits established pursuant to the Consent Decree or in Appendix 3 as netting reductions or emission offsets in any PSD permit or permit proceeding; if, however: (1) CRRM modifies or constructs emission units for purposes of compliance with Tier II gasoline or low sulfur diesel and (2) the actual emissions from the units that are subject to emission limits under this Consent Decree are below the emission limits required pursuant to this Consent Decree, CRRM may seek approval from EPA and KDHE to use the difference between the emissions of those newly constructed or modified units and the emission limits established under the Consent Decree as netting reductions or emission offsets for purposes of Tier II compliance PSD permitting. For purposes of seeking approval under this Paragraph, CRRM must demonstrate that the new or modified emissions unit (1) is being constructed or modified for purposes of compliance with Tier 2 gasoline or low sulfur diesel requirements; and (2) has a federally enforceable, non-Title V Permit that reflects: (a) for heaters, compliance with an emission limit of 0.02 lbs per MMBtu on a 3-hour average basis; (b) for heaters and boilers, no liquid or solid fuel firing authorization and compliance with sulfur limits in NSPS, Subpart I; (c) For FCCU, a limit of 20 ppmvd NO<sub>x</sub> corrected to 0% O<sub>2</sub> or less on a 365-day rolling average basis; or (d) for FCCU, a limit of 25 ppmvd SO<sub>2</sub> corrected to 0% O<sub>2</sub> or less on a 365-day rolling average basis.

69. By no later than six (6) months from receipt of KDHE approval of a protocol pursuant to Paragraph 66, CRRM shall update the pending Title V Class I Operating Permit Application previously submitted to KDHE by Farmland Industries, Inc.

70. Until such times as those limits become federally enforceable permit conditions, the limits set forth in Appendix 3 shall be enforceable emission limits under this Consent Decree

## **XII. COMPLIANCE ACTIONS FOR RCRA REGULATED HAZARDOUS WASTE MANAGEMENT UNITS**

71. Within thirty (30) days of the Date of Entry of this Consent Decree, CRRM and CRT each shall provide KDHE with completed Business Concern Disclosure Statements (BCDS), pursuant to K.S.A. 65-3437 and K.A.R. 28-31-9(b) and updated RCRA Part A applications, pursuant to 40 CFR 270.72(b), to reflect the change of ownership at the refinery and terminal. If a "parent" corporation, as defined at [www.kdhe.state.ks.us/waste/apps-hw/hw\\_bus\\_disclose2\\_instr.pdf](http://www.kdhe.state.ks.us/waste/apps-hw/hw_bus_disclose2_instr.pdf) is providing financial assurance for CRRM and/or CRT, CRRM and/or CRT, as applicable, must complete BCDS Form I and the parent must complete BCDS Form II.

72. Within forty-five calendar (45) days after the Date of Entry of this Consent Decree and pursuant to K.A.R. 28-31-8 and 40 CFR §§ 265.142, 265.143, 265.144, and 265.145, CRRM for the refinery shall establish financial assurance for closure care of the regulated units identified in Paragraph 77 a.i. and ii., in the aggregate amount of \$176,335 which may not include the use of (1) a "trust fund", unless such trust fund is fully funded for the costs of closure care at creation; (2) the "financial test"; or (3) the "corporate guarantee" (the "cash financial assurance"). CRRM and CRT shall submit to EPA and KDHE documentation that the amount of cash financial assurance for closure is being properly maintained. If requested by EPA and/or

KDHE, CRRM (with respect to the refinery) and CRT (with respect to the terminal) shall make revisions to the amount of financial assurance required for closure care.

73. Within forty-five (45) calendar days after the Date of Entry of this Consent Decree, CRRM shall (with respect to the refinery) and CRT shall (with respect to the terminal), respectively, establish financial assurance for post-closure care for the refinery and terminal (\$2,608,200 for the refinery; \$149,150 for the terminal) in conformance with the financial assurance mechanisms described within 40 C.F.R. §§ 265.142, 265.143, 264.144, and 265.145.

74. Upon Entry of the Consent Decree and pursuant to the requirements of K.A.R. 28-31-8 and 40 CFR Part 265, Subpart F, CRRM shall assume operation of and maintain ground-water monitoring systems for the regulated units identified in Appendix 4, relating to the refinery, and CRT shall assume operations of and maintain ground-water monitoring systems for the regulated units identified in Appendix 4 relating to the terminal, according to the following terms:

- a. Within forty-five (45) calendar days of the Date of Entry of the Consent Decree, CRRM (with respect to the refinery) and CRT (with respect to the terminal) shall designate in writing to EPA and KDHE monitoring well systems comprised of well locations that are sufficient in number and location to satisfy the requirements of 40 CFR § 265.91 (a) or (b) for each identified regulated unit specified in Appendix 4. To satisfy this requirement, CRRM and CRT, as applicable, may rely on wells installed pursuant to the 1994 Coffeyville AOC (Docket No. VII-94-H-0020).
- b. CRRM and CRT, as applicable, shall sample the designated groundwater monitoring systems according to the frequency required for assessment monitoring, as set forth at 40 CFR § 265.93, and shall sample for the specific hazardous constituents required for sampling pursuant to the approved Sampling and Analysis Plans in place at the time of such sampling for each of the refinery and terminal, respectively.
- c. By no later than March 1 of each year, CRRM (for the refinery) and CRT (for the terminal) shall submit to KDHE an annual report on the groundwater monitoring systems for the identified units in Appendix 4

prepared in accordance with the requirements of 40 CFR § 265.94(b).

- d In making an evaluation of what groundwater monitoring activities are required for the identified units in Appendix 4, CRRM (for the refinery) and CRT (for the terminal) may reference any investigative or remedial work previously conducted at each of the refinery and the terminal, respectively.

75. Within thirty (30) calendar days after the Date of Entry of the Consent Decree and pursuant to K.A.R. 28-31-8 and 40 CFR § 265.147, CRRM shall establish and submit to EPA and KDHE documentation of liability coverage in the aggregate amount of at least \$8,000,000 for sudden and nonsudden accidental occurrences at the refinery.

76. Within thirty (30) calendar days after the Date of Entry of this Consent Decree, CRRM shall submit to KDHE for review and approval revised post-closure plans for the Closed Surface Pond/Surge Impoundment (SWMUs 141, 142) and the Former Oily Ponds (Hazardous Waste Landfill - SWMU 93) for the refinery. CRT shall submit to KDHE for review and approval a revised post-closure plan for the Hazardous Waste Landfarm (SWMU 58) at the terminal. The revised post-closure plans shall name CRRM as the responsible party for the performance of all obligations required for post-closure care of the regulated units at the refinery and CRT as the responsible party for the performance of all obligations required for post-closure care of the regulated units at the terminal.

77. Within thirty (30) days after CRRM's receipt of EPA approval of the Final RCRA Corrective Measures Study for the refinery and pursuant to the requirements of K.A.R. 28-31-8 and 40 CFR §§ 265.112 and 265.118, CRRM shall submit to KDHE for review and approval a revised facility closure/post-closure plan (hereinafter "closure/post-closure plan") as specified below. The approved post-closure plan shall name CRRM as the responsible party for the performance of all obligations required for post-closure care of the regulated units at the

refinery.

- a. The closure/post-closure plan for the refinery shall address the following units:
  - i. F037 Surface Ditches, F037 Equalization Basin and API ditch. The plan shall be designed to address the requirements for the closure and post-closure care of surface impoundments, as set forth at 40 CFR § 265.228;
  - ii. Heat Exchanger Bundle sludge (K050) cleaning areas and the Cooling Tower areas. The plan shall be designed to address the requirements for the closure and post-closure care for landfills, as set forth at 40 CFR § 265.310
- b. The closure/post-closure plan shall include a proposed groundwater assessment monitoring plan (GWMP) for the units identified in subparagraph a., above, designed to address the requirements for assessment monitoring as set forth at 40 CFR § 265.93, and consistent with the terms of the Sampling and Analysis Plans then in effect
- c. Upon CRRM's receipt of KDHE approval of the closure/post-closure plan, CRRM shall commence implementation of the plan in accordance with the requirements contained therein.

78 [INTENTIONALLY LEFT BLANK]

79 [INTENTIONALLY LEFT BLANK]

80. In making submissions pursuant to this Section relating to the closure/post-closure and/or groundwater monitoring activities required for the units identified in Appendix 4, CRRM and CRT may reference any closure plans previously submitted and/or any investigative or remedial work previously conducted at each of the refinery and terminal and need submit only those portions of the previously approved submissions necessary to reflect the changes in corporate ownership

### **XIII. RCRA CORRECTIVE ACTION AND PERMIT COMPLIANCE REQUIREMENTS**

81. On or before the end of the public comment period of this Consent Decree.

CRRM shall become a party to and thereby agree to perform the obligations under the Administrative Order on Consent for the refinery (RCRA Docket No. VII-94-H-0020). CRT shall become a party to and thereby agree to perform the obligations under the Administrative Order on Consent for the terminal (RCRA Docket No. VII-95-H-011).

82. On or before the end of the public comment period of this Consent Decree, but subject to Paragraph 87 below, CRRM and CRT, as applicable, shall establish and thereafter maintain financial assurance for on-site and off-site corrective action at the refinery and terminal as follows:

- a. \$3,202,989 for the performance of work required pursuant to the Administrative Orders on Consent referenced in Paragraph 81, above, which amount shall be divided between the refinery and terminal such that CRRM is responsible for \$1,604,380, and CRT is responsible for \$1,598,609.; and
- b. \$11,797,011 for the performance of RCRA corrective action which amount shall be contributed in total by CRRM and CRT.

83. The financial assurance required by Paragraph 82 shall be "cash financial assurance" (as defined in Paragraph 72, above) and shall be established in conformance with the financial assurance mechanisms described within 40 C.F.R. §§ 265.142, 265.143, 265.144, and 265.145.

84. Financial assurance for the performance of work required pursuant to the Administrative Orders on Consent as required by Paragraph 82 a. shall be maintained for the refinery until such time as CRRM is notified in writing by EPA that all such work is complete with respect to the refinery, and for the terminal until such time as CRT is notified in writing by

EPA that all such work is complete with respect to the terminal. The amount of "cash financial assurance" will be reduced on an annual basis by the amount of money expended on work performed by CRRM and CRT during the previous year pursuant to EPA/KDHE approved workplans. In the event that the estimated cost of completion of the work under said Administrative Orders on Consent is greater than the remaining balance of cash financial assurance, CRRM and/or CRT (as applicable) shall establish financial assurance for the difference in conformance with the financial assurance mechanisms described within 40 C.F.R. §§ 265.142, 265.143, 265.144, and 265.145.

85. Financial assurance for the performance of RCRA corrective action at the refinery and terminal as required by Paragraph 82 b shall be maintained until such time as financial assurance for RCRA corrective action at the refinery and terminal has been established pursuant to administrative orders or RCRA permits, or until EPA determines in writing that no further RCRA corrective action at the refinery and/or terminal is necessary. The amount of "cash financial assurance" will be reduced on an annual basis by the amount of money expended on work performed by CRRM and CRT during the previous year pursuant to EPA/KDHE approved workplans. In the event that the estimated cost of completion of the RCRA corrective action at the refinery or terminal is greater than the remaining balance of "cash financial assurance," then CRRM and CRT shall establish financial assurance for the difference in conformance with the financial assurance mechanisms described within 40 C.F.R. §§ 265.142, 265.143, 265.144, and 265.145.

86. After two years after the Date of Closing, upon the request of CRRM and/or CRT, the parties shall review the financial assurance established pursuant to Paragraph 82 above, and determine whether another mechanism, or reduction in the amounts of "cash financial

assurance", including consideration of a "trust fund", the "financial self test," or the "corporate guarantee" may be appropriate to establish financial assurance for the corrective action to be performed at the refinery and terminal. Any change in the mechanism establishing financial assurance pursuant to Paragraph 82 may only be made with the express written approval of and in a form acceptable to EPA. Any financial assurance shall be established in conformance with the financial assurance mechanisms described within 40 C.F.R. §§ 265.142, 265.143, 265.144, and 265.145.

87. CRRM and CRT are liable for corrective action and financial assurance under the provisions of this Section; however, the financial assurance for corrective action required by Paragraph 82 may be established and maintained by Farmland Industries, Inc. and/or its successors as defined by the (Bankruptcy Court) on behalf of CRRM and CRT. Any such financial assurance established by Farmland for the refinery and/or terminal shall satisfy CRRM and/or CRT's respective financial assurance obligations pursuant to Paragraphs 82 a. and 82 b. EPA will notify CRRM and CRT upon receipt of a document from or on behalf of Farmland Industries, Inc. that financial assurance in an amount and manner sufficient to satisfy the terms of this Section has been established.

88. CRRM agrees to timely submit a complete Part B application for the refinery and CRT agrees to timely submit a complete Part B application for the terminal, upon the request of EPA and/or KDHE and agree not to contest their legal obligation to timely submit a Part B application as defined by applicable law. In any action to enforce the terms of this Section or otherwise require the performance of RCRA corrective action to address on- or off-site contamination from the refinery and terminal pursuant to RCRA, CRRM and/or CRT agree not to contest EPA's and/or KDHE's jurisdiction and/or authority to bring such action; provided that



CRRM and CRT reserve all rights and defenses, if any there be, to contest any substantive claims contained in such actions.

89. Within 60 days from the Date of Closing, CRRM (with respect to the refinery) and CRT (with respect to the terminal) shall submit to EPA workplans pursuant to EPA's letters to Farmland Industries, Inc. dated January 13, 2004, regarding additional work at the refinery and terminal.

90. CRRM and CRT shall submit all documents required to be submitted to EPA by Sections XII and XIII of this Consent Decree to:

John DeLashmit, P.E.  
U.S. Environmental Protection Agency  
Region VII (ARTD)  
901 N. 5th Street  
Kansas City, Kansas 66101

91. CRRM and CRT shall submit all documents required to be submitted to KDHE by Sections XII and XIII of this Consent Decree to:

Mostafa Kamal  
Kansas Department of Health and Environment  
Bureau of Waste Management  
Curtis State Office Building  
1000 SW Jackson, Suite 320  
Topeka, Kansas. 66612

92. As used in this Consent Decree, the term "off-site RCRA corrective action" shall mean RCRA corrective action required to address contamination released on or at the refinery or the terminal that has migrated past the boundaries as defined in maps attached hereto as Appendix 5.

#### **XIV. RECORDKEEPING, RECORD RETENTION AND REPORTING**

93. For the purposes of this Consent Decree, any requirement for CRRM and/or CRT

to consult, obtain approval of or submit any type of information to EPA or the United States, including reports, analyses, or data, shall be construed as imposing identical requirements from CRRM and/or CRT to KDHE.

94. CRRM and CRT shall retain all records required to be maintained in accordance with this Consent Decree for a minimum period of five (5) years after termination of this Consent Decree, unless other regulations require the records to be maintained longer.

95. With the exception of the Semi-Annual Progress Reports, all notices, reports or any other written or electronic submissions from CRRM and CRT shall be certified as set forth below. Certification may be by the refinery and/or terminal manager, as applicable, or his/her designee, as provided in writing by the refinery/terminal manager, provided the designee is a company employee responsible for environmental management and compliance.

"I certify under penalty of law that I have personally examined and am familiar with the information submitted herein and that I have made a diligent inquiry of those individuals immediately responsible for obtaining the information and that to the best of my knowledge and belief, the information submitted herewith is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment."

96. Beginning with the period ending December 31, 2004, and for every six (6) calendar month period thereafter, CRRM and/or CRT, as applicable, each shall submit a calendar Semi-annual Progress Report ("calendar semi-annual progress report") to EPA within thirty (30) days after the end of each six (6)-month period during the life of the Consent Decree. In addition to any other information specifically required to be submitted in compliance with other Sections of the Consent Decree, this report shall contain the following:

- A. Progress report on the implementation of the requirements of Sections IV through XI of this Consent Decree for the calendar six (6)-month period;
- B. A summary of the emissions data as required by Sections IV through XI

of this Consent Decree for the calendar six (6)-month period;

- C. A description of any problems anticipated with respect to meeting any of the requirements of this Consent Decree; and
- D. Any such additional matters as CRRM and/or CRT, as applicable, believe should be brought to the attention of the United States or KDHE.

97. The calendar Semi-Annual Progress Reports shall be certified by the refinery/terminal manager or company official responsible for environmental management and compliance, as follows:

"I certify under penalty of law that this information was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based upon my directions and my inquiry of the person(s) who manage the system, or the person(s) directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete "

#### **STIPULATED PENALTIES**

##### **A. In General**

98. CRRM and CRT shall be liable for stipulated penalties for failure to comply with the terms of this Consent Decree, as provided herein. For purposes of this Section, compliance shall mean timely and complete performance in accordance with the Decree and any Appendices.

99. All stipulated penalties shall begin to accrue on the day after complete performance is due or the day a violation occurs, and shall continue to accrue through the final day of the correction of the violation or completion of the activity. Separate stipulated penalties for separate violations of this Decree may accrue simultaneously. All stipulated penalties owed to the United States and the State of Kansas under this Decree shall be due and payable within thirty (30) days of CRRM's and/or CRT's receipt of a written demand for payment, unless

CRRM and/or CRT invoke the procedures set forth in Section XVIII, Dispute Resolution

100. CRRM and CRT shall pay stipulated penalties to the United States and the State of Kansas (split 50% to each), for each failure by CRRM and/or CRT to comply with the terms of this Consent Decree; provided, however, that the United States or the State of Kansas may elect to bring an action for contempt in lieu of seeking stipulated penalties for violations of this Consent Decree. Payment of all stipulated penalties shall be made in accordance with the procedures set forth in this Section.

101. The payment of any stipulated penalty shall not affect CRRM's and/or CRT's respective obligations to comply with the provisions of this Decree.

B. Accrual of Stipulated Penalties

102. Stipulated penalties shall be calculated in the amounts specified in Paragraphs 103 through 112. Stipulated penalties under Paragraphs 103(C), and 104(C) shall not start to accrue until there is noncompliance with the concentration based, rolling average emission limits identified in the Sections IV and V for 5% or more of the applicable unit's operating time during any calendar quarter. Stipulated penalties under Paragraph 106(A) shall not start to accrue until there is noncompliance with the CEM's operating requirement for 5% or more of the monitor's operating time during any calendar quarter.

103. Section IV - Requirements for NOx Emission Reductions from FCCU

A. For failure to install approved control equipment by December 31, 2010:

<u>Period of Delay</u>	<u>Penalty per day</u>
1st through 30th day after deadline	\$940
31st through 60th day after deadline	\$2,250
Beyond 60th day after deadline	\$3,750 or, an amount equal or greater to 1.2 times the economic benefit of delayed compliance.

whichever is greater.

(B) For failure to use NO<sub>x</sub> reducing catalyst additives:

Period of Delay	Penalty per day
1st through 30th day	\$560
31st through 60th day	\$1,120
Beyond 60th day	\$2,250

(C) For each failure to meet any emissions limit proposed by CRRM or established by EPA (final or interim) for NO<sub>x</sub> per day, per unit: \$560 for each calendar day in a calendar quarter on which the short-term rolling average exceeds the applicable limit; and \$1,875 for each calendar day in a calendar quarter on which the specified 365-day rolling average exceeds the applicable limit

(D) For failure to meet a deadline in project schedule

Period of Delay	Penalty per day
1st through 30th day after deadline	\$320
31st through 60th day after deadline	\$640
Beyond 60th day after deadline	\$1,250 or, an amount equal to 1.2 times the economic benefit of delayed compliance, whichever is greater

104. Section V - Requirements for SO<sub>2</sub> Emission Reductions from FCCU.

(A) For failure to install a wet gas scrubber at the Refinery by December 31, 2010:

<u>Period of Delay</u>	<u>Penalty per day</u>
1st through 30th day after deadline	\$940
31st through 60th day after deadline	\$2,250
Beyond 60th day after deadline	\$3,750, or an amount equal to 1.2 times the economic benefit of the delayed compliance whichever is greater

(B) For failure to use SO<sub>2</sub> reducing Catalyst Additives per day:

<u>Period of Delay</u>	<u>Penalty per day</u>
1st through 30th day after deadline	\$560
31st through 60th day after deadline	\$1,120
Beyond 60th day after deadline	\$2,250 or, for either, an amount equal to 1.2 times the economic benefit of delayed compliance, whichever is greater.

(C) For each failure to meet SO<sub>2</sub> emission limits established for the FCCU and/or each failure to meet SO<sub>2</sub> emission limits proposed by CRRM or established by EPA (final or interim) per day, per unit: \$1,125 for each calendar day in a calendar quarter on which the specified 7-day rolling average exceeds the applicable limit; \$2,250 for each calendar day in a calendar quarter on which the specified 365 day rolling average exceeds the applicable limit

(D) For failure to meet a deadline in project schedule:

<u>Period of Delay</u>	<u>Penalty per day</u>
1st through 30th day after deadline	\$320
31st through 60th day after deadline	\$640
Beyond 60th day	\$1,250

105. Section VI - Requirements for PM Emissions Reductions from FCCU.

(A) For failure to meet the PM emission limit:

<u>Period of Delay</u>	<u>Penalty per day</u>
1st through 30th day after deadline	\$340
31st through 60th day after deadline	\$680
Beyond 60th day	\$1,350

(B) For failure to conduct stack test, per unit, per day \$125

106 Section VII - Requirements for CEMs.

(A) For failure to operate CEMs, per unit, per day:

<u>Period of Delay</u>	<u>Penalty per day</u>
1st through 30th day after deadline	\$375
31st through 60th day after deadline	\$750
Beyond 60th day after deadline	\$1,500, or, an amount equal to 1.2 times the economic benefit of delayed compliance, whichever is greater.

(B) For failure to conduct RAA or RATA on each CEMs

<u>Period of Delay</u>	<u>Penalty per day</u>
1st through 30th day after deadline	\$190
31st through 60th day after deadline	\$375
Beyond 60th day after deadline	\$750

(C) For failure to conduct CGA on each CEMs, per unit:

<u>Period of Delay</u>	<u>Penalty per day</u>
1st through 30th day after deadline	\$50
31st through 60th day after deadline	\$100
Beyond 60th day after deadline	\$200 or, for either, an amount equal to 1.2 times the economic benefit of delayed compliance, whichever is greater.

107. Section VIII -- Requirements for Benzene Waste NESHA Program

Enhancements. For each violation in which a frequency is specified in Paragraph 51, the amounts identified below shall apply on the first day of violation, shall be calculated for each incremental period of violation (or portion thereof), and shall be doubled beginning on the fourth

consecutive, continuing period of violation. For requirements where no frequency is specified, penalties will not be doubled.

- A. For failure to complete the BWN Compliance Review and Verification Reports as required by Paragraph 51.C, \$3,750 per month
- B. For failure to implement the actions necessary to correct non-compliance as required by Paragraph 51.D:

<u>Period of Delay</u>	<u>Penalty per day</u>
1st through 30th day after deadline	\$625
31st through 60th day after deadline	\$1,500
Beyond 60th day	\$2,500, or an amount equal to 1.2 times the economic benefit of delayed compliance, whichever is greater

- C. If TAB equals or exceeds 1 Mg/yr, for failure to implement the training requirements of Paragraph 51.G, \$5,000 per quarter
- D. For failure to submit or maintain any records or materials required by Paragraph 51.H of this Consent Decree, \$1,000 per record or submission
- E. If TAB equals or exceeds 10 Mg/yr, for failure to install controls on waste management units handling organic wastes as required by Paragraph 51.H.ii, \$5,000 per month per waste management unit
- F. If TAB equals or exceeds 1 Mg/yr, for failure to conduct sampling in accordance with the sampling plans required by Paragraphs 51.I (10 Mg/yr or more) or 51.J (1 Mg/yr or more), as applicable: \$250 per week, per stream, or \$15,000 per quarter, per stream, whichever is greater, but



not to exceed \$75,000 per quarter.

G. If TAB equals or exceeds 1 Mg/yr, for failure to submit the plan or retain the third-party contractor required by Paragraphs 51 I viii (10 Mg/yr or more), 51 J.v (1 Mg/yr or more), or 51 J.vi (1 Mg/yr or more), \$5,000 per month

H. If TAB equals or exceeds 10 Mg/yr, for failure to comply with the miscellaneous compliance measures set forth in Paragraph 51 K ii, as follows:

For 51 K ii.a, monthly visual inspections: \$250 per drain not inspected;

For 51 K ii.b, weekly monitoring of vents: \$250 per vent not monitored;

I. If TAB equals or exceeds 1 Mg/yr, for failure to identify/mark segregated stormwater drains as required in Paragraph 51 K ii.c: \$500 per week per drain;

J. For failure to submit the written deliverables required by Paragraph 51 M: \$500 per week, per report.

K. If it is determined through federal, state, or local investigation that the refinery has failed to include all benzene containing waste streams in its TAB calculation submitted pursuant to Paragraphs 51 C, CRRM shall pay the following:

<u>Waste Stream</u>	<u>Penalty</u>
for waste streams < 0.03 Mg/yr	\$125
for waste streams between 0.03 and 0.1 Mg/yr	\$500
for waste streams between 0.1 and 0.5 Mg/yr	\$2,500

for waste streams > 0.5 Mg/yr \$5,000

108. Section IX– Requirements for Sulfur Recovery Plant.

A. For failure to control sour water stripper stream:

<u>Period of Non-Compliance</u>	<u>Penalty per day</u>
1st through 30th day	\$ 750
31st through 60th day	\$ 1,300
Beyond 60th day	\$3,000 or an amount equal to 1.2 times the amount of delayed compliance whichever is greater.

109. Section X – Requirements for Other Emission Controls.

A. For failure to meet emissions limits, operating and monitoring requirements:

<u>Period of Non-Compliance</u>	<u>Penalty per day</u>
1st through 30th day	\$750
31st through 60th day	\$1,300
Beyond 60th day	\$3,000 or an amount equal to 1.2 times the amount of delayed compliance whichever is greater

B. For failure to install rupture disks by the dates specified, per rupture disk:

<u>Period of Delay</u>	<u>Penalty per day</u>
1st through 30th day after deadline	\$560
31st through 60th day after deadline	\$1,120
Beyond 60th day after deadline	\$2,250, or an amount equal to 1.2 times the economic benefit of delayed compliance, whichever is greater.

C. For failure to conduct initial performance test (if applicable), by the dates specified, per unit:

<u>Period of Delay</u>	<u>Penalty per day</u>
1st through 30th day after deadline	\$125
31st through 60th day after deadline	\$250
Beyond 60th day after deadline	\$500, or an amount equal to 1.2 times the economic benefit of delayed compliance, whichever is greater

110. Section XII - RCRA Closure/Post Closure

A. For failure to submit permit applications:

<u>Period of Non-Compliance</u>	<u>Penalty per day</u>
1st through 30th day	\$600
31st through 60th day	\$1,200
Over 60 days	2,250 or an amount equal to 1.2 times the economic benefit of delayed compliance, whichever is greater

111. Section XIII – RCRA Corrective Action

A. For failure to execute amendment to AOC

<u>Period of Delay</u>	<u>Penalty per day</u>
1st through 30th day	\$150
Beyond 30th day	\$375

B. For failure to post financial assurance

<u>Period of Delay</u>	<u>Penalty per day</u>
1st through 30th day	\$750

Beyond 30th day \$1300

112. General Provisions

A. For failure to prepare and/or submit written deliverables required by this Consent Decree:

<u>Period of Delay</u>	<u>Penalty per day</u>
1st through 30th day after deadline	\$150
31st through 60th day after deadline	\$375
Beyond 60th day after deadline	\$750

B. For each failure to submit a permit application as required by this Consent Decree:

<u>Period of Delay</u>	<u>Penalty per day</u>
Days 1-30	\$600
Days 31-60	\$1200
Over 60 Days	\$2,250

113. Payment

A. Payment of any stipulated penalty pursuant to this Consent Decree due the United States shall be by Electronic Funds Transfer ("EFT") to the United States Department of Justice, in accordance with current EFT procedures, referencing the USAO File Number \_\_\_\_\_, DOJ Case Number 90-5-2-1-07459/1, and the civil action case name and case number of the District of Kansas. Any costs of such EFT shall be the responsibility of CRRM or CRT, as applicable. Payment shall be made in accordance with specific instructions provided to CRRM and/or CRT by the Financial Litigation Unit of the U.S. Attorney's Office for the District of Kansas. Any funds received after 11:00 a.m. (EST) shall be credited on the next business day.

CRRM and/or CRT, as applicable, shall send notice that such payment has been made to the United States as specified in Paragraph 145

B Payment of any penalty pursuant to this Consent Decree due the State of Kansas shall be by check payable to the Kansas Department of Health and Environment and addressed as follows:

Roderick L. Bremby, Secretary  
Kansas Department of Health and Environment  
Charles Curtis State Office Building  
1000 S W Jackson, Suite 560  
Topeka, Kansas 66612-1368

C If CRRM and/or CRT, as applicable, fail to timely and fully make any payment required under this Decree, CRRM or CRT, as applicable, shall be liable for interest on the unpaid balance at the rate established pursuant to 28 U.S.C. § 1961(a), i.e. a rate equal to the coupon issue yield equivalent (as determined by the Secretary of Treasury) of the average accepted auction price for the last auction of 52-week U.S. Treasury bills settled prior to the Date of Lodging of the Consent Decree. Interest shall be computed daily and compounded annually. Interest shall be calculated from the date payment is due under the Consent Decree through the date of actual payment. In addition, CRRM and/or CRT, as applicable, shall be liable for any costs of enforcement and collection pursuant to the Federal Debt Collection Procedure Act, 28 U.S.C. § 3001 et seq.

D All monies payable under this decree are penalties within the meaning of Section 162(f) of the Internal Revenue Code, 26 U.S.C. § 162(f), and therefore are not tax deductible for purposes of federal, state, or local law.

E Upon the Date of Entry of this Consent Decree, the Consent Decree shall constitute an enforceable judgment for purposes of post-judgment collection in accordance with

the Federal Rules of Civil Procedure, the Federal Debt Collection Procedure Act, 28 U.S.C. §§ 3001-3308, and all other applicable federal authority. The United States shall be deemed a judgment creditor for purposes of collecting any unpaid amounts of stipulated penalties and interest.

#### **XVI. RIGHT OF ENTRY**

114. Any authorized representative of EPA or KDHE, including contractors and grantees, shall have a right of entry upon the premises of the refinery and the terminal at any reasonable time for the purpose of monitoring compliance with the provisions of this Consent Decree, including inspecting plant equipment, and inspecting and copying all records maintained by CRRM and/or CRT required by this Consent Decree. Nothing in this Consent Decree shall limit the authority of EPA and KDHE to conduct tests and inspections under Section 114 of the Act, 42 U.S.C. § 7414, or any other statutory and regulatory provision.

#### **XVII. FORCE MAJEURE**

115. If any event occurs which causes or may cause a delay or impediment to performance in complying with any provision of this Consent Decree, CRRM (for the refinery) and/or CRT (for the terminal) shall notify the United States and KDHE in writing as soon as practicable, but in any event within twenty (20) business days of the date when CRRM or CRT, as applicable, first knew of the event or should have known of the event by the exercise of due diligence. In this notice, CRRM or CRT, as applicable, shall claim a force majeure by specifically referencing this Paragraph and describing the event, the anticipated length of time the delay may persist, the cause or causes of the delay, and the measures taken or to be taken by CRRM or CRT, as applicable to prevent or minimize the delay and the schedule by which those measures will be implemented. CRRM or CRT, as applicable, shall adopt all reasonable

measures to avoid or minimize such delays

116. Failure by CRRM or CRT to substantially comply with the notice requirements of this Section as specified above shall render this Section voidable by the United States and KDHE as to the specific event for which CRRM or CRT, as applicable, have failed to comply with such notice requirement, and, if voided, it shall be of no effect as to the particular event involved.

117. If the United States and KDHE agree that the delay or impediment to performance has been or will be caused by circumstances beyond the control of CRRM or CRT, as applicable, including any entity controlled by them, and that they could not have prevented the delay by the exercise of due diligence, the parties shall stipulate to an extension of the required deadline(s) for all requirement(s) affected by the delay by a period equivalent to the delay actually caused by such circumstances, or such other period as may be appropriate in light of the circumstances. Such stipulation may be filed as a modification to this Consent Decree by agreement of the parties pursuant to the modification procedures established in this Consent Decree. CRRM or CRT, as applicable, shall not be liable for stipulated penalties for the period of any such delay.

118. If the United States or KDHE deny CRRM or CRT's, as applicable, claim that a delay or impediment to performance has been or will be caused by circumstances beyond the control of CRRM or CRT, as applicable, including any entity controlled by them, and that they could not have prevented the delay by the exercise of due diligence, the United States' and/or KDHE's position shall control unless CRRM or CRT, as applicable, invoke the procedures set forth in Section XVII. Dispute Resolution within ten (10) days of the receipt of such denial. CRRM or CRT, as applicable, shall have the burden of proving that any event is caused solely by circumstances beyond their reasonable control and that they exercised best efforts to comply

with its obligation under the Decree

119. Unanticipated or increased costs or expenses associated with the performance of CRRM's and CRT's obligations under this Consent Decree shall not constitute a force majeure event

#### XVIII. DISPUTE RESOLUTION

120. The dispute resolution procedures set forth in this Section shall be available to resolve all disputes arising under this Consent Decree

121. The dispute resolution procedures required herein shall be invoked upon the giving of written notice by one of the Parties to this Consent Decree to another advising of a dispute pursuant to this Section. The notice shall describe the nature of the dispute, and shall state the noticing Party's position with regard to such dispute. The Party receiving such a notice shall acknowledge receipt of the notice and the Parties shall expeditiously schedule a meeting to discuss the dispute informally. Such period of informal negotiations shall not extend beyond thirty (30) calendar days from the date of receipt of the notice invoking dispute resolution, unless it is agreed by the Parties that this period should be extended

122. In the event that the Parties are unable to reach agreement during the informal negotiation period, the United States and KDHE shall provide CRRM or CRT, as applicable, with a written summary of their position regarding the dispute. The position advanced by the United States and KDHE shall be considered binding unless within forty-five (45) calendar days of CRRM's or CRT's, as applicable, receipt of the written summary of the United States' and KDHE's position CRRM or CRT, as applicable, file with the Court a petition which describes the nature of the dispute. The United States and KDHE shall respond to the petition within forty-five (45) calendar days of filing



123. In the event that the United States and KDHE make differing determinations or take differing actions that affect CRRM's or CRT's, as applicable, rights or obligations under this Consent Decree, the final decisions of the United States shall take precedence.

124. Where the nature of the dispute is such that a more timely resolution of the issue is required, the time periods set forth in this Section may be shortened upon motion of one of the Parties to the dispute.

125. The Parties do not intend that the invocation of this Section by a Party cause the Court to draw any inferences nor establish any presumptions adverse to either Party as a result of invocation of this Section.

126. As part of the resolution of any dispute submitted to dispute resolution, the Parties, by agreement, or this Court, by Order, may, in appropriate circumstances, extend or modify the schedule for completion of work under this Consent Decree to account for the delay in the work that occurred as a result of dispute resolution. CRRM or CRT, as applicable, shall be liable for stipulated penalties for its failure thereafter to complete the work in accordance with the extended or modified schedule.

#### **XIX. EFFECT OF SETTLEMENT**

127. In consideration of performance of the injunctive relief set forth herein, the effect of this settlement will be to fully resolve CRRM's and CRT's civil liability to the United States and the State of Kansas through the Date of Lodging this Consent Decree as set forth in this Section.

128. For purposes of this Section, "Applicable NSR/PSD Requirements" shall mean: PSD requirements at Part C of Subchapter I of the Act, 42 U.S.C. § 7475, and the regulations promulgated thereunder at 40 C.F.R. § 52.21;

“Plan Requirements for Non-Attainment Areas” at Part D of Subchapter I of the Act, 42 U.S.C. §§ 7502-7503, and the regulations promulgated thereunder at 40 C.F.R. §§ 51.165 (a) and (b); Title 40, Part 51, Appendix S; and 40 C.F.R. § 52.24; and

Any applicable state regulations that implement, adopt, or incorporate the specific federal regulatory requirements identified above

129 The effect of this settlement will be to fully resolve: 1) CRRM's civil liability to the United States and the State of Kansas through the Date of Lodging this Consent Decree for the violations alleged in the Complaint filed simultaneously with the Lodging of this Consent Decree, which will include, at a minimum, all allegations set forth in the Notice of Violation issued to Farmland Industries, Inc. by EPA on or about January 17, 2002; 2) CRRM's civil penalty liability to State of Kansas related to any impermissible impact on air quality (NAAQS) provided CRRM takes steps within 180 days (or other period of time approved in writing by KDHE) of the completion of modeling and increment consumption analysis to abate the impermissible impact on air quality; 3) CRRM's civil liability to the United States and the State of Kansas for the operation of the refinery without required permits, permit applications and/or authorizations prior to the transfer to CRRM of existing valid permits, permit applications, and/or authorizations to operate issued to Farmland Industries, Inc. prior to the Date of Closing, and 4) CRT's civil liability to the United States and the State of Kansas for the operation of the terminal without required permits, permit applications and/or authorizations prior to the transfer to CRT of existing valid permits, permit applications, and/or authorizations to operate issued to Farmland Industries, Inc. prior to the Date of Closing.

130 With respect to emissions of the following pollutants from the following units, entry of this Consent Decree shall resolve all civil liability of the refinery to the United States

and the State of Kansas as follows:

- A. for violations of the Applicable NSR/PSD Requirements at the FCCU for SO<sub>2</sub>, NO<sub>x</sub>, PM and PM<sub>10</sub> resulting from construction or modification that occurred prior to the Date of Lodging of the Consent Decree. This release shall continue for each pollutant until installation of the control equipment required for that pollutant, or until December 31, 2010, whichever is earlier;
- B. for violations of the Applicable NSR/PSD Requirements at the No. 2 Crude Unit Heater for NO<sub>x</sub> resulting from construction or modification that occurred prior to the Date of Lodging of the Consent Decree. This release shall continue until incorporation of the emission limit required by Paragraph 54 into a federally enforceable permit;
- C. for violations of the Applicable NSR/PSD Requirements at the No. 3 Vacuum Unit Heater for NO<sub>x</sub> resulting from construction or modification that occurred prior to the Date of Lodging of the Consent Decree. This release shall continue until incorporation of the emission limit required by Paragraph 54 into a federally enforceable permit;
- D. for violations of the Applicable NSR/PSD Requirements at the RADCO Crude Heater for NO<sub>x</sub> resulting from construction or modification that occurred prior to the Date of Lodging of the Consent Decree. This release shall continue until incorporation of the final emission limit required by Paragraph 57 into a federally enforceable permit;
- E. for violations of the monitoring requirements of NSPS Subpart J for fuel

gas combustion devices, specifically 40 C.F.R. Part 60.105(a), for the flare on the API Separator Off-Gas Scrubber. This release shall continue until ninety (90) days after EPA's final determination of the approvability of the pending request for an alternative monitoring plan.

F. For violations of the requirements of the Benzene Waste NESHAP, more specifically 40 C.F.R. Part 61, Subpart FF and any applicable state regulations that implement, adopt, or incorporate the Benzene Waste NESHAP requirements, that occurred prior to the Date of Entry of the Consent Decree and that are identified by CRRM pursuant to Paragraphs 51.C and 51.D. This release shall continue until CRRM completes all actions required pursuant to Paragraph 51.D.

131. Notwithstanding the resolution of liability in Paragraph 129, the release of liability by the United States and KDHE to CRRM for violations of the Applicable NSR/PSD Requirements during the period between the Date of Lodging of the Consent Decree and any applicable post-lodging compliance dates shall be rendered void if CRRM materially fails to comply with the respective obligations and requirements of Sections IV, V, VI, VII and X, provided however, that the release in this Section shall not be rendered void if CRRM remedies such material failure and pays any stipulated penalties due as a result of such material failure.

132. Notwithstanding the resolution of liability in Paragraph 129, the release of liability by the United States and KDHE to CRRM for violations of NSPS Subpart I for fuel gas combustion devices, specifically 40 C.F.R. Part 60.105(a), during the period between the Date of Lodging of the Consent Decree and any applicable post-lodging compliance dates shall be rendered void if CRRM materially fails to comply with the obligations and requirements of

Paragraphs 60 and 61, provided however, that the release in these Paragraphs shall not be rendered void if CRRM remedies such material failure and pays any stipulated penalties due as a result of such material failure

133. The United States and the State of Kansas retain all authority and reserve all rights to take any and all actions otherwise authorized by law. Nothing in this Consent Decree shall be construed to bar, alter, or limit the ability of the United States and the State of Kansas to pursue, and the United States and the State of Kansas expressly reserve their rights to pursue, any legal or equitable, civil or criminal, judicial or administrative relief to remedy future violations after the Date of Lodging of the Consent Decree of any statute, law, or regulation; violations of the terms of this Consent Decree; or violations of any statute, law, or regulation except those violations expressly set forth in the Complaint. The United States' and the State of Kansas' covenant not to sue does not extend to any matters other than those expressly specified herein. The United States and the State of Kansas reserve, and this Consent Decree is without prejudice to, all rights against CRRM or CRT with respect to all matters other than those expressly specified herein

134. In any subsequent administrative or judicial proceeding initiated by the United States or the State of Kansas for civil penalties or injunctive relief, CRRM and CRT shall not assert and may not maintain any defense or claim based upon the principles of waiver, res judicata, collateral estoppel, issue preclusion, claim-splitting, or other defenses based upon any contention that the claims raised by the United States or the State of Kansas in the subsequent proceeding should have been brought in the instant case

135. [INTENTIONALLY LEFT BLANK]

136. Notwithstanding any other provision of this Consent Decree, the United States

and the State of Kansas retain all authority and reserve all rights to take any and all response actions authorized by law, including actions against any person, including CRRM and CRT, to abate or correct conditions which may present an imminent and substantial endangerment to the public health, welfare, or the environment.

## **XX. GENERAL PROVISIONS**

137. Retention of Jurisdiction. This Court shall retain jurisdiction of this matter for the purposes of implementing and enforcing the terms and conditions of this Consent Decree and for the purpose of adjudicating all disputes among the Parties that may arise under the provisions of this Consent Decree, until the Consent Decree terminates in accordance with Section 148.

138. Other Laws. Except as specifically provided by this Consent Decree, nothing in this Consent Decree shall relieve CRRM or CRT of their respective obligations to comply with all applicable federal, state and local laws and regulations. Nothing in this Consent Decree shall be construed to prevent or limit the rights of the United States or the State of Kansas to seek or obtain other remedies or sanctions available under other federal, state or local statutes or regulations, by virtue of CRRM's or CRT's violation of this Consent Decree or of the statutes and regulations upon which the Consent Decree is based, or for CRRM's or CRT's violations of any applicable provisions of law, other than the specific matters resolved herein. This shall include the right of the United States and the State of Kansas to invoke the authority of the Court to order CRRM's or CRT's compliance with this Consent Decree in a subsequent contempt action.

139. Effect of Compliance. The United States and KDHE do not, by their consent to the entry of this Consent Decree, warrant or aver in any manner that CRRM's or CRT's complete compliance with this Consent Decree will result in compliance with the provisions of

the CAA, RCRA, the Kansas Clean Air Act, or the Kansas counterpart. Notwithstanding the review or approval by EPA or KDHE of any plans, reports, policies or procedures formulated pursuant to the Consent Decree, CRRM (for the refinery) and CRT (for the terminal) shall remain solely responsible for compliance with the terms of this Consent Decree, all applicable permits, and all applicable federal, state and local laws and regulations

140. Service of Process. CRRM and CRT hereby agree to accept service of process by mail with respect to all matters arising under or relating to this Consent Decree and to waive the formal service requirements set forth in Rule 4 of the Federal Rules of Civil Procedure and any applicable local rules of this Court, including but not limited to, service of a summons. The persons identified by CRRM and CRT, respectively, at Paragraph 145 are authorized to accept service of process with respect to all matters arising under or relating to this Consent Decree

141. Post-Lodging/Pre-Entry Obligations. Obligations of CRRM or CRT under Consent Decree to perform duties scheduled to occur after the Date of Lodging of this Consent Decree, but prior to the Date of Entry of this Consent Decree, shall be legally enforceable on and after the Date of Entry of this Consent Decree. Liability for stipulated penalties, if applicable, shall accrue for violation of such obligations and payment of such stipulated penalties may be demanded by the United States and KDHE as provided in this Consent Decree, provided that stipulated penalties that may have accrued between the Date of Lodging of this Consent Decree and the Date of Entry of this Consent Decree may not be collected unless and until this Consent Decree is entered by the Court

142. Costs. Each party to this action shall bear its own costs and attorneys' fees.

143. Public Documents. All information and documents submitted by CRRM or CRT to the United States and KDHE pursuant to this Consent Decree shall be subject to public

inspection in accordance with the respective statutes and regulations that are applicable to EPA and KDHE, unless subject to legal privileges or protection or identified and supported as business confidential in accordance with the respective state or federal statutes or regulations.

144. Public Notice and Comment The Parties agree to this Consent Decree and agree that the Consent Decree may be entered upon compliance with the public notice procedures set forth at 28 U.S.C. § 507, and upon notice to this Court from the United States Department of Justice requesting entry of the Consent Decree. The United States and KDHE reserve their rights to withdraw or withhold consent to the Consent Decree if public comments disclose facts or considerations indicating that the Consent Decree is inappropriate, improper, or inadequate.

145. Notice. Unless otherwise provided herein, notifications to or communications between the Parties shall be deemed submitted on the date they are postmarked and sent by U.S. Mail, postage pre-paid, except for notices under Section XVII (Force Majeure) and Section XVIII (Dispute Resolution), which shall be sent by overnight mail or by certified or registered mail, return receipt requested. Except as otherwise specifically provided herein, all reports, notifications, certifications, or other communications required or allowed under this Consent Decree to be submitted or delivered to the United States, EPA, KDHE, and CRRM and CRT shall be addressed as follows:

As to the United States:

Chief  
Environmental Enforcement Section  
Environmental and Natural Resources Division  
U.S. Department of Justice  
P.O. Box 7611, Ben Franklin Station  
Washington, D.C. 20044-7611  
Reference Case No. 90-5-2-1-07459/1



As to EPA, HQ

Director, Air Enforcement Division  
Office of Regulatory Enforcement  
U.S. Environmental Protection Agency  
Mail Code 22452-A  
1200 Pennsylvania Avenue, NW  
Washington, DC 20460-0001

As to EPA, Region VII:

Chief  
Air Planning and Compliance Branch  
U.S. Environmental Protection Agency, Region 7  
901 N. 5th Street  
Kansas City, Kansas 66101

As to the State of Kansas:

Chief  
Bureau of Air and Radiation  
Kansas Department of Health and Environment  
1000 S.W. Jackson, Suite 310  
Topeka, Kansas 66612-1366

As to CRRM and CRT:

Keith D. Osborn  
PO Box 570  
400 N. Linden  
Coffeyville, Kansas 67337

Philip L. Rinaldi  
Chief Executive Officer  
PO Box 1566  
Coffeyville, Kansas 67337

Any party may change either the notice recipient or the address for providing notices to it by serving all other parties with a notice setting forth such new recipient or address. In addition, the nature and frequency of reports required by the Consent Decree may be modified by mutual written consent of the Parties.

146. Paperwork Reduction Act. The information required to be maintained or submitted pursuant to this Consent Decree is not subject to the Paperwork Reduction Act of 1980, 44 U.S.C. §§ 3501 et seq.

147. Modification. This Consent Decree contains the entire agreement of the Parties and shall not be modified by any prior oral or written agreement, representation or understanding. Prior drafts of the Consent Decree shall not be used in any action involving the interpretation or enforcement of this Consent Decree. Non-material modifications to this Consent Decree shall be in writing, signed by the Parties, but need not be filed with the Court. Material modifications to this Consent Decree shall be in writing, signed by the Parties, and shall be effective upon filing with the Court. Specific provisions in this Consent Decree that govern specific types of modifications shall be effective as set forth in the specific provisions governing the modification.

## **XXI. TERMINATION**

148. This Consent Decree shall be subject to termination upon motion by the United States or CRRM and CRT after CRRM and CRT satisfy all requirements of this Consent Decree. The requirements for termination include payment of all penalties that may be due to the United States or the State of Kansas under this Consent Decree, installation of control technology systems as specified herein and the performance of all other Consent Decree requirements, and EPA's receipt of the first calendar semi-annual progress report following the conclusion of CRRM's obligations under this Consent Decree. At such time, if CRRM and CRT believe that they have fulfilled the obligations of this Consent Decree and have paid any stipulated penalties required by this Consent Decree, then CRRM or CRT shall so certify to the United States and unless the United States objects in writing with specific reasons within one hundred twenty (120)

days of receipt of the certification, the Court shall order that this Consent Decree be terminated on CRRM and CRT's motion.

**XXII. SIGNATORIES**

149. Each of the undersigned representatives certify that he or she is fully authorized to enter into the Consent Decree on behalf of such Parties, and to execute and to bind such Parties to the Consent Decree.

Dated and entered this 13th day of July, 2004.

s/ Monti Belot

---

UNITED STATES DISTRICT COURT JUDGE

THE UNDERSIGNED PARTIES enter into this Consent Decree in the matter of United States of America v CRRM and Marketing, LLC et al.

FOR THE UNITED STATES OF AMERICA

FOR THE U.S. DEPARTMENT OF JUSTICE

Date: 2/17/04

s/Thomas L. Sansonetti

THOMAS L. SANSONETTI

Assistant Attorney General

U.S. Department of Justice

Environmental and Natural Resources Division

Washington, D.C. 20044

Date: 2/17/04

s/Robert Maher

ROBERT MAHER

ASSISTANT SECTION CHIEF

U.S. Department of Justice

Environmental and Natural Resources Division

Washington, D.C. 20044

Date: 2/24/04

s/Eric F. Melgren

ERIC F. MELGREN

United States Attorney

District of Kansas

Date: 2/25/04

s/Emily B. Metzger

EMILY B. METZGER

Assistant U.S. Attorney

Kansas State Bar No 10750

1200 Epic Center, 301 N. Main

Wichita, Kansas 67202

FOR THE U S EPA

Date: 2/10/04

s/Phyllis P. Harris

PHYLLIS P. HARRIS

Acting Assistant Administrator

U.S. Environmental Protection Agency

Office of Enforcement and Compliance Assurance

FOR THE U.S. EPA REGION VII

Date: 2/7/02

s/James B. Gulliford

JAMES B. GULLIFORD  
Regional Administrator  
U.S. Environmental Protection Agency  
Region VII  
Kansas City, Kansas

Date: 2/7/04

s/Martha R. Steincamp

MARTHA R. STEINCAMP  
Regional Counsel  
U.S. Environmental Protection Agency  
Region VII  
901 N. 5th Street  
Kansas City, Kansas 66101

Date: 2/7/04

s/Becky Ingrum Dolph

BECKY INGRUM DOLPH  
Deputy Regional Counsel  
U.S. Environmental Protection Agency  
Region VII  
901 N. 5th Street  
Kansas City, Kansas 66101

FOR THE STATE OF KANSAS

Date: 2/9/04

s/Roderick L. Bremby

RODERICK L. BREMBY  
Secretary  
Kansas Department of Health and  
Environment  
Charles Curtis State Office Building  
1000 S.W. Jackson, Suite 560  
Topeka, Kansas 66612

Date: 2/9/04

s/Yvonne Anderson

YVONNE ANDERSON  
Chief Legal Counsel  
Kansas Department of Health and  
Environment  
Charles Curtis State Office Building  
1000 S W Jackson, Suite 560  
Topeka, Kansas 66612

FOR DEFENDANT COFFEYVILLE  
RESOURCES REFINING &  
MARKETING, LLC

Date: 2/6/04

s/Phillip L. Rinaldi  
PHILLIP L. RINALDI  
Chief Executive Officer

FOR DEFENDANT COFFEYVILLE  
RESOURCES TERMINAL, LLC

Date: 2/6/04

s/Phillip L. Rinaldi  
PHILLIP L. RINALDI  
Chief Executive Officer



ATTORNEY FOR DEFENDANT COFFEYVILLE  
RESOURCES REFINING & MARKETING LLC,  
  
and COFFEYVILLE RESOURCES TERMINAL,  
  
LLC

Date: 2/12/04

s/Leann M. Johnson-Koch  
LEANN M JOHNSON-KOCH  
Piper Rudnick, LLP  
1200 Nineteenth Street, N W  
Washington, DC 20036-2412

# Appendix 1

## APPENDIX 1

### DETERMINING THE OPTIMIZED ADDITION RATES OF CATALYST ADDITIVES AT THE FCCU

#### I. PURPOSE

This Appendix defines a process by which Coffeyville Refining & Marketing, LLC ("CRRM") shall determine for the FCCU, the Optimized Addition Rates for NO<sub>x</sub> Reducing Catalyst Additives and SO<sub>2</sub> Reducing Catalyst Additives during the Optimization Periods.

#### II. ESTABLISHING AN OPTIMIZED NO<sub>x</sub> REDUCING CATALYST ADDITIVE ADDITION RATE

A. Overview The Optimized NO<sub>x</sub> Reducing Catalyst Additive Addition Rate shall be determined by evaluating NO<sub>x</sub> emissions reductions and annualized costs at three different addition rates.

B. The Increments. The three addition rates or "increments" shall be:

1.0 Weight % NO<sub>x</sub> Reducing Catalyst Additive  
1.5 Weight % NO<sub>x</sub> Reducing Catalyst Additive  
2.0 Weight % NO<sub>x</sub> Reducing Catalyst Additive

C. The Procedure. CRRM shall successively add NO<sub>x</sub> Reducing Catalyst Additive at each increment set forth above. Once a steady state has been achieved at each increment, CRRM shall evaluate the performance of the NO<sub>x</sub> Reducing Catalyst Additive in terms of NO<sub>x</sub> emissions reductions and projected annualized costs. The final Optimized NO<sub>x</sub> Reducing Catalyst Additive Addition Rate shall occur at the addition rate where either:

- (1) the FCCU meets 20 ppm<sub>v,d</sub> NO<sub>x</sub> (corrected to 0% O<sub>2</sub>) on a 365-day rolling average, in which case CRRM shall agree to accept limits of 20 ppm<sub>v,d</sub> NO<sub>x</sub> (corrected to 0% O<sub>2</sub>) on a 365-day rolling average basis at the conclusion of the Demonstration Period; or
- (2) the total annualized cost-effectiveness of the NO<sub>x</sub> Reducing Catalyst Additive used exceeds \$10,000 per ton of NO<sub>x</sub> removed as measured from an uncontrolled baseline (as estimated based on current operating parameters as compared to operating parameters during the NO<sub>x</sub> baseline period); or
- (3) the Incremental NO<sub>x</sub> Reduction Factor is less than 1.8, where the Incremental NO<sub>x</sub> Reduction Factor is defined as:

$$\frac{PR_i - PR_{i-1}}{CAR_i - CAR_{i-1}} \quad \text{where:}$$

PR<sub>i</sub> = Pollutant (NO<sub>x</sub>) reduction rate at increment i in pounds per day from the baseline model

PR<sub>i-1</sub> = Pollutant (NO<sub>x</sub>) reduction rate at the increment prior to increment i in pounds per day from the baseline model

CAR<sub>i</sub> = Total Catalyst Additive Rate at increment i in pounds per day

CAR<sub>i-1</sub> = Total Catalyst Additive Rate at the increment prior to increment i in pounds per day

If the conditions of either (1), (2) or (3) above are not met at any addition rate less than 2.0 weight % NO<sub>x</sub> Reducing Catalyst Additive, then the Optimized Addition Rate shall be 2.0 weight % NO<sub>x</sub> Reducing Catalyst Additive, except that if an additive limits the FCCU's ability to control CO emissions to below 500 ppmvd CO corrected to 0% O<sub>2</sub> on an 1-hour basis and cannot be reasonably compensated for by adjusting other parameters, then the additive rate shall be reduced to a level at which the additive no longer causes such effects.

### **III. ESTABLISHING AN OPTIMIZED SO<sub>2</sub> REDUCING CATALYST ADDITIVE ADDITION RATE**

A. **Overview**. The Optimized SO<sub>2</sub> Reducing Catalyst Additive Addition Rate shall be determined by evaluating SO<sub>2</sub> emissions reductions at the following addition rates.

B. **The Increments**. The addition rates or "increments" shall be:

5.0 Weight % SO<sub>2</sub> Reducing Catalyst Additive  
6.0 Weight % SO<sub>2</sub> Reducing Catalyst Additive  
7.0 Weight % SO<sub>2</sub> Reducing Catalyst Additive  
8.0 Weight % SO<sub>2</sub> Reducing Catalyst Additive  
9.0 Weight % SO<sub>2</sub> Reducing Catalyst Additive  
10.0 Weight % SO<sub>2</sub> Reducing Catalyst Additive

C. **The Procedure**. CRRM shall successively add SO<sub>2</sub> Reducing Catalyst Additive at each increment set forth above. Once a steady state has been achieved at each increment, CRRM shall evaluate the performance of the SO<sub>2</sub> Reducing Catalyst Additive in terms of SO<sub>2</sub> emissions reductions. The final Optimized SO<sub>2</sub> Reducing Catalyst Additive Addition Rate shall occur at the addition rate where either:

- (1) the FCCU meets 25 ppm<sub>v,d</sub> SO<sub>2</sub> (corrected to 0% O<sub>2</sub>) on a 365-day rolling average and 50 ppm<sub>v,d</sub> SO<sub>2</sub> (corrected to 0% O<sub>2</sub>) on a 7-day rolling average, in which case CRRM shall agree to accept limits of 25 ppm<sub>v,d</sub> SO<sub>2</sub> (corrected to 0% O<sub>2</sub>) on a 365-day rolling average and 50 ppm<sub>v,d</sub> SO<sub>2</sub> (corrected to 0% O<sub>2</sub>) on a 7-day rolling average at the conclusion of the Demonstration Period;
- (2) the addition of SO<sub>2</sub> reducing catalyst additive limits the FCCU feedstock processing rate or conversion capability in a manner that cannot be reasonably compensated for by the adjustment of other parameters, the maximum addition rate shall be reduced to a level at which the additive no longer interferes with the FCCU processing or conversion rate; provided, however, that in no case, shall the maximum addition rate be less than 5.0 weight %; or
- (3) the Incremental SO<sub>2</sub> Pick-up Factor is less than 2.0, where the Incremental

SO<sub>2</sub> Pick-up Factor is defined as:

$$\frac{PR_i}{CAR_i} - \frac{PR_{i-1}}{CAR_{i-1}} \quad \text{where:}$$

$PR_i$  = Pollutant (SO<sub>2</sub>) reduction rate at increment i in pounds per day from the baseline model

$PR_{i-1}$  = Pollutant (SO<sub>2</sub>) reduction rate at the increment prior to increment i in pounds per day from the baseline model

$CAR_i$  = Total Catalyst Additive Rate at increment i in pounds per day

$CAR_{i-1}$  = Total Catalyst Additive Rate at the increment prior to increment i in pounds per day

If the conditions of either (1), (2), or (3) above are not met at any addition rate less than 10.0 weight % SO<sub>2</sub> Reducing Catalyst Additive, then the Optimized Addition Rate shall be 10.0 weight % SO<sub>2</sub> Reducing Catalyst Additive. In no case shall the Optimized Addition Rate shall be less than 5.0 weight % SO<sub>2</sub> Reducing Catalyst Additive.

## Appendix 2

## Appendix 3



### APPENDIX 3

The items identified in this Appendix 3 are the operating limitations that arose out of the 1994/1995 expansion project. Except as identified herein, there are no other operating limitations that arose out of the 1994/1995 expansion project

#### A. General Conditions 1994/1995

Refinery Capacity: The No. 1 and No. 2 Crude Units are capable of processing 115,000 barrels of crude oil per stream day ("bpsd")<sup>1</sup> and 112,000 barrels of crude oil per calendar day ("bpcd")<sup>2</sup>. There may be other upstream and downstream limitations on the refinery's ability to operate at the Refinery Capacity.

1. FCCU Capacity: The fresh feed capability of the FCCU is 32,500 barrels per stream day, which corresponds to an annual fresh feed capability of 30,907 barrels per calendar day.

#### B. 1994 Construction Permit

2. The following units/components became subject to LDAR under the NSPS, Subpart VV/GGG, K.A.R. 28-19-150, standards as a result of the 1994 refinery expansion:
  - (a) Merox Jet Fuel Sweetening Unit (FS-20-001) ((1994 Construction Permit – Air Emissions Unit Technical Specification Number 1, (hereinafter "1994 Spec. No. 1"))
  - (b) #1 Crude Unit (FS-03-001) (1994 Spec. Nos. 2-6)
  - (c) No. 1 Vacuum (FS-04-001) (1994 Spec. No. 11)
  - (d) Hydrobon Unit (FS-09-001) (1994 Spec. Nos. 12, 14)
  - (e) Platformer (FS-10-001) (1994 Spec. No. 15)
  - (f) FCCU (FS-13-001) (1994 Spec. Nos. 16-18)
  - (g) Coker Unit (FS-12-003) (1994 Spec. Nos. 19-22)

3. The following fugitive emission components were removed from service: (1) at the Petroco Bender Unit (Emission Unit not assigned) are 116 valves, 1 pump seal, 290 flanges (1994 Spec. No. 1); (2) at the #1 Crude Unit (FS-03-001) are 86 valves, 4 pumps, 236 flanges, and 6 heat exchangers (1994 Spec. No. 6); (3) at the #1 Vacuum Unit (FS-04-001) a number of flanges, a pump, valves, and heat exchangers (1994 Spec. No. 11); (4) at the Hydrobon Unit (FS-09-001) a number of valves, pumps, flanges, and relief valves (1994 Spec. No. 14); and (5) at the former overhead vapor line at the FCCU (FS-13-001) components were also removed from service (1994 Spec. No. 18).

#### C. 1995 Construction Permit

4. Tank 0552 (TK-0552), a 213,000 gallon aboveground crude oil storage tank was removed from service. (1995 Construction Permit – Air Emissions Unit Technical 1995 Spec No. 30 (hereinafter "1995 Spec. No. 30")).

<sup>1</sup> "stream day" means the maximum number of barrels of input that a facility can process within a 24-hour period when running at full capacity under optimal conditions with no allowance for downtime

<sup>2</sup> "calendar day" means the amount of input a facility can process under usual operating conditions. The amount is expressed in terms of capacity during a 24-hour period and reduces the maximum processing capacity of all units at the facility under continuous operation to account for limitations that may delay, interrupt or slow down production.

5. Crude Tower Off-Gas Compressor: A compressor system recovers off-gas from the crude unit overhead receiver that previously had been vented to the atmosphere. The recovered off-gas is being compressed and will continue to be sent to the refinery fuel gas treating system. (1995 Spec No. 33)
6. Heaters DHR-1 and DHR-2: Two coker charge heaters (DHR-1 and DHR-2) at the Coker Unit have been dismantled. (1995 Permit Conditions (PC): General Requirements, ¶18)
7. The Hydrodesulfurization Unit wastewater stream (EU-08-100) is subject to NSPS, Subpart QQQ. (No 1995 Spec No.)
8. The #2 Crude Unit (EU-06-100) is subject to NSPS, Subpart QQQ. (No 1995 Spec. No.)
9. New Bottom Loading Rack (EU-96-900, EU-96-901, FS-96-001): A gasoline and distillate loading rack replaced the former loading rack. The old loading rack was dismantled. The New Bottom Loading Rack is subject to the MACT Subpart CC standard. The vapor combustor is subject to NSPS, Subpart J. (1995 Spec. No. 5).
10. Sour Water Stripper (EU-28-001, EU-28-100, FS-28-001): A new sour water stripper was installed in 1996. Vent gas from the sour water stripper will continue to be routed to a Sulfur Recovery Unit for treatment prior to combustion in the tail gas treating unit. The Sour Water Stripper Wastewater Sump (EU-28-100) is subject to NSPS, Subpart QQQ. (1995 Spec. No. 40)
11. The #3 Vacuum Unit (FS-05-001) (not including the heater, which is included in the Consent Decree) is subject to NSPS LDAR, but monitoring is not required because the unit is in heavy liquid service and the overhead unit is in vacuum service. The #3 Vacuum Unit wastewater stream (EU-05-100) is subject to NSPS, Subpart QQQ. (1995 Spec. No. 3)
12. #1 Crude Unit heater (EU-03-FH0007): A 44 MMBTU/hr charge heater (the Struthers-Wells heater) is restricted to operating 400 hours per year. (1995 Spec. No. 32).
13. The following units/components are subject to LDAR under the NSPS standards as a result of the 1994/95 refinery expansion:
  - (a) #2 Crude Unit (FS-06-001), (not including the heater, which is included in the Consent Decree) (1995 Spec. No. 3)
  - (b) Sat Gas Unit (FS-22-001) (1995 Spec. No. 11)
  - (c) Hydrodesulfurization Unit (FS-08-001) (1995 Spec. No. 15)
  - (d) Hydrobon Unit (FS-09-001) (1995 Spec. No. 34)
  - (e) New Bottom Loading Rack (No 1995 Spec. No.)
  - (f) Crude Tower Offgas Compressor (No 1995 Spec. No.)
14. H<sub>2</sub>S Fugitives: Valves, pump seals, compressors seals, flanges, and pressure relief devices contribute fugitive emissions of hydrogen sulfide from the #1 Crude Unit (FS-03-001) (1995 Spec. No. 41); #2 Crude Unit (FS-06-001) (also subject to QQQ) (1995 Spec. No. 41); FCCU (FS-13-001) (1995 Spec. No. 41); Coker Unit (FS-12-001) (1995 Spec. No. 41), and Sour Water Stripper (FS-28-001) (also subject to QQQ) (1995 Spec. No. 41) are not subject to additional control requirements.
15. Tank 1017 (TK-1017): A 420,000 gallon spherical mixed NGL pressure vessel and

associated piping, pump, and valve were constructed as part of the Alky Unit. This tank is not subject to NSPS, Subpart Kb pursuant to 40 C.F.R. § 60.110b(d)(2)(1995 Spec. Nos. 25 and 43).

D. New LDAR Standards

16. The following units/components were added as part of the 1994/1995 refinery expansion and have since become subject to LDAR under the MACT Standard:

- (a) #1 Crude Unit (FS-03-001): Two new heat exchangers, six replacement heat exchangers, one water cooler, and four replacement pumps are the new components. There are no new air emission units. (1994 Spec. No. 2-6)
- (b) FCCU Gas Concentration Unit (FS-13-001): A new, larger vapor line replaces the vapor line running from the fractionator overhead system to the Wet Gas Compressor. (1994 Spec. No. 16)
- (c) Coker Unit (FS-12-003): Two water pumps, four overhead fan fans, and new internal components for the absorber tower increase overhead condensing capacity at the Coker Unit, but did not increase emissions other than fugitive emissions. There are no new air emission point sources. (1994 Spec. No. 19-22)
- (d) The No. 1 Vacuum Unit (FS-04-001) is subject to MACT LDAR, but monitoring is not required because the unit does not process HAPs and the overhead unit is in vacuum service. Two new heat exchangers and one replacement pump are the new components. There are no new air emission point sources (1994 Spec. No. 11)
- (e) New Bottom Loading Rack: (1995 No LDAR Spec.)

## Appendix 4

---

#### APPENDIX 4

##### Coffeyville Regulated Hazardous Waste Management Units

1. Closed Surface Pond/Surge Impoundment (SWMUs 141, 142) - The former Surface Pond was a RCRA regulated unlined surface impoundment which received process waste water before the wastewater was routed to the facility's API Separator. Following closure of the Surface Pond in 1990, a new surge impoundment was constructed at the same location. Respondent's Part A permit application and approved closure plan for the Surface Pond/Surge Impoundment state that during its operation this unit received characteristic (D001, D002 and D007) and listed (K048, K049 and K050) hazardous wastes. The results of samples taken from sludges in the former Surface Pond show concentrations above background levels for benzene, ethylbenzene, xylene, chrysene, phenanthrene and pyrene.

2. The Former Oily Ponds (Hazardous Waste Landfill) (SMWU 93) - The former Oily Ponds were three RCRA regulated unlined surface impoundments which consisted of the API Pond, the Mixed Pond and the Lime Pond. In 1990, the Oily Ponds were closed as a hazardous waste landfill. Respondent's Part A permit application and approved closure plan state that during their operation, the Oily Ponds received characteristic (D007) and listed (K048, K049, K050 and K051) hazardous wastes. The results of samples taken from sludges in the former Oily Ponds show concentrations above background levels for lead, chromium, xylene, chrysene, phenanthrene and pyrene. During the closure of the Oily Ponds as a Landfill, the Landfill received sludges from the Oily Ponds, asphalt and asphalt-contaminated soil, crude oil contaminated soil from around various crude oil storage tanks and bottom sludges.

3. API ditch (SWMU 193) - The former API ditch was a RCRA regulated unlined surface impoundment located in front of the former API Separator. The API ditch received process wastewater and hazardous wastes routed from the API Separator and Slop Oil Tank. Respondent's Part A permit application for the API ditch states the unit received characteristic (D002 and D007) and listed (K048, K049, K050, K051) hazardous wastes. This regulated unit has never

undergone RCRA closure. During the facility "turnaround" in 1990, approximately 150 cubic yards of sludges were removed from the API ditch and disposed of in the Hazardous Waste Landfill. In 1991, the API ditch was filled in with dirt. Hydropunch data from samples taken in the area of the API ditch show concentrations above background levels for benzene, toluene, ethylbenzene and xylene.

4. Heat Exchanger Bundle sludge (K050) cleaning areas (SWMUs 202, 203, 204) - Throughout the facility, heat exchanger bundle sludge (K050) and wastewater contained in the heat exchangers have been washed directly onto the ground and/or

into the facility drainage system. Three known areas were utilized for the cleaning of heat exchanger bundle sludge that were not directly connected to the facility drainage system. Areas located to the northeast of the "Sourwater stripper" unit, to the northwest of the "Hydrobon" unit and to the south of the "Crude" unit" are subject to closure and post-closure requirements as regulated hazardous waste management units based on the disposal of K050 heat exchanger bundle sludge.

5. Cooling Tower areas (SWMUs 156 and 168) - Six of the facility's fourteen cooling towers used chromium-based corrosion inhibitors through at least June 1989. In its December 28, 1988 Part A application, Respondent identified wastes from the cooling towers using chromium-based inhibitors as a characteristic hazardous waste for chromium (D007). Blowdown and/or sludges from these cooling towers may have been released or placed into areas adjacent to the towers and/or washed into the facility drainage system. Areas adjacent to cooling towers Nos. 1 and 12 are subject to closure and post-closure requirements as regulated hazardous waste management units based on contamination by chromium tainted spray and/or blowdown.

6. F037 Equalization Basin (SWMU 140) - The former Equalization Basin was a surface impoundment that received inflow from the former API Separator. The Equalization basin operated until 1992. On May 2, 1991, the sludges contained in the Equalization Basin were listed as F037 and the Equalization Basin became regulated subject to RCRA regulation. F037 was listed as a hazardous waste for the presence of benzene, benzo(a)pyrene, chrysene, lead and chromium.

7. F037 Surface ditches (SWMU 151) - The facility operated a series of unlined surface ditches which fed into the facility's wastewater treatment plant. On May 2, 1991, the sludges which had accumulated in this system of ditches were listed as F037 hazardous waste and the ditches became subject to RCRA regulation. The results of samples taken from sludges in the F037 Surface Ditch show concentrations above background levels of benzene, ethylbenzene, xylene, chrysene, phenanthrene and pyrene.

Phillipsburg Regulated Units:

1. The Hazardous Waste Landfarm (SWMU 03) - The Hazardous Waste Landfarm (Landfarm) was placed in operation in approximately 1974. The Landfarm is approximately 14 acres in size and is located in the northeast corner of the Facility. It received RCRA hazardous wastes from the Facility until 1990. The wastes disposed of in the Landfarm included, but were not limited to: DAY float (K048), slop oil emulsion solids (K049), heat exchanger bundle sludges (K050) and API Separator bottom sludges (K051). An estimated 600 tons of these wastes were annually disposed of in the Landfarm during its active life. The Landfarm underwent RCRA closure in 1990 - 1992, and is currently subject to post-closure groundwater monitoring. Soils impacted by petroleum hydrocarbons have been found in the uppermost three feet of soil at the Landfarm. The results of soil samples taken from the Landfarm in 1993 and 1994 show concentrations of lead and chromium in soils at the Landfarm. The results of groundwater monitoring samples taken from 1991 to 1994 detected chromium in the groundwater at levels in excess of MCLs in up gradient and down gradient wells.

## Appendix 5



**Attachment G**

**Non-Material Modification of CRRM Consent Decree**



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

REGION VII  
901 NORTH 5TH STREET  
KANSAS CITY, KANSAS 66101

OCT 26 2005

RECEIVED

DEC 13 2005

BUREAU OF AIR  
AND RADIATION

CERTIFIED MAIL  
RETURN RECEIPT REQUESTED

Leann M. Johnson-Koch, Esq.  
DLA Piper Rudnick Gray Cary US LLP  
1200 Nineteenth Street, N.W.  
Washington, D.C. 20036-2412

Re: Revised First Non-Material Modification to Consent Decree  
*United States, et al v. Coffeyville Refining & Marketing, LLC, et al.*  
Civ. No. 04-CV-1064-MLB

Dear Ms. Johnson-Koch:

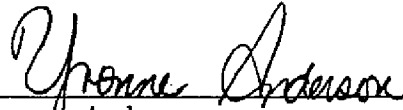
I am writing in reference to the correspondence sent to you dated August 5, 2005, transmitting an agreement among EPA, KDHE and CRRM, which would establish February 28, 2006, as the date by which a construction permit application must be submitted to KDHE and also the date by which an updated Title V permit application must be submitted to KDHE, modifying the Consent Decree entered in the United States District Court for the District of Kansas on July 13, 2004. After execution of that agreement by your client (but prior to execution by KDHE and EPA), there has been discussion among EPA, KDHE, and you regarding the appropriate date for submittal of the updated Title V permit application to KDHE. My understanding is that the parties agree that the appropriate date for that submittal is November 1, 2005, with an additional update by February 28, 2006.

As a result, set forth below is a revised agreement reflecting the discussion among EPA, KDHE and CRRM. Please indicate your agreement with this non-material modification letter agreement by your signatures at the bottom of the agreement and returning this letter to me. Following execution by the EPA and KDHE, a copy of the fully executed letter will be forwarded to you.

For KDHE:



Ron Hammerschmidt, Director  
Division of Environment

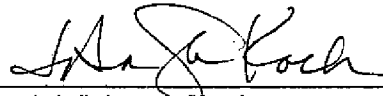


Yvonne Anderson  
Chief Legal Counsel

For CRRM:



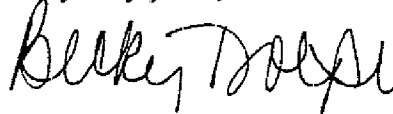
Operating  
Chief Executive Officer



Leann M. Johnson-Koch  
Attorney for CRRM

If you have any questions or would like to discuss this matter further, please feel free to contact me at 913-551-7281. Thank you for your cooperation.

Very truly yours,



Becky Ingrum Dolph  
Deputy Regional Counsel

cc: David Dain  
U.S. Department of Justice

Yvonne Anderson  
KDHE

*United States, et al. v. Coffeyville Refining & Marketing, LLC, et al.*  
Civ. No. 04-CV-1064-MLB

**Agreement for First Non-Material Modification to Consent Decree**

1. On July 13, 2004, a Consent Decree was entered in the United States District Court for the District of Kansas in the above matter.
2. Paragraph 147 of the Consent Decree provides that non-material modifications to the Consent Decree shall be in writing, signed by the parties, but need not be filed with the Court; material modifications to the Consent Decree shall be in writing, signed by the parties, and shall be effective upon filing with the Court.
3. The parties agree that the agreement contained herein constitutes a non-material modification to the Consent Decree and as such, must be in writing, signed by the parties, but need not be filed with the Court.
4. The parties agree to comply with and be bound by the terms of this First Non-Material Modification to Consent Decree. CRRM agrees not to contest the validity of this First Non-Material Modification to Consent Decree in any subsequent proceeding brought to implement or enforce its terms.
5. The parties agree that nothing in this First Non-Material Modification to Consent Decree changes, modifies, or supersedes any of the terms of the Consent Decree, except as specifically provided herein; all other terms of the Consent Decree, except as specifically provided herein, remain in full force and effect.
6. The parties are voluntarily entering into this Agreement for First Non-Material Modification to the Consent Decree.
7. The parties agree that Paragraph 67 of the Consent Decree is hereby modified in its entirety as follows:  
  
67. By no later than February 26, 2006, CRRM shall submit a construction permit application to KDHE which shall include:

A. Modeling for increment consumption and NAAQS impacts for NO<sub>x</sub>, SO<sub>2</sub>, and PM, in accordance with the protocol approved by KDHE. If the increment consumption and/or modeling reveals that the refinery would have an impermissible impact on ambient air quality, the permit application shall include a compliance plan and schedule with short- and long-term operational restrictions and/or controls to reduce emissions as necessary to eliminate the impermissible impact on ambient air quality;

B. A request to incorporate final emission limits, standards, and methods for demonstrating compliance, as applicable, from Sections IV, V, VI, IX and X from this Consent Decree into federally enforceable permit conditions; and

C. A request to incorporate the limits set forth in Appendix 3 from all phases of the 1994-1995 refinery expansion project into federally enforceable permit conditions.

8. The parties agree that Paragraph 69 of the Consent Decree is hereby modified in its entirety as follows:

69. By no later than November 1, 2005, CRRM shall update the pending Title V Class I Operating Permit Application previously submitted to KDHE by Farmland Industries, Inc. to incorporate all relevant activities that have occurred since the submission of the original application, except for terms and conditions relevant to the construction permit application described in Paragraph 67 of this Consent Decree. By no later than February 28, 2006, CRRM shall either 1) update the pending Title V Class I Operating Permit Application to incorporate the terms and conditions relevant to the construction permit application described in Paragraph 67 or this Consent Decree, or 2) in the event such Title V Class I Operating Permit has been issued to CRRM, request a modification of the same to incorporate the terms and conditions relevant to the construction permit application described in Paragraph 67 or this Consent Decree

9. This First Non-Material Modification to Consent Decree shall be effective upon the signatures of all parties set forth below.

For EPA Region VII:

---

William A. Spratlin, Director  
Air, RCRA and Toxics Division

---

Becky Ingrum Dolph  
Deputy Regional Counsel

**Attachment H**

**CONSENT DECREE COMPLIANCE PLAN**

## Attachment H

**CONSENT DECREE COMPLIANCE PLAN****Coffeyville Resources Refining & Marketing (CRRM) – Coffeyville, Kansas**

In accordance with 40 CFR 70.6(c)(3), a compliance plan is to provide the requirements and milestones for achieving compliance with activities related to the Clean Air Act (CAA) statutory and regulatory requirements applicable to the refinery. The table below constitutes the compliance plan and references paragraphs in the associated Consent Decree<sup>1</sup> thereby defining specific required activities, their compliance dates, and associated reporting requirements. Until compliance is achieved for the items specified in the compliance plan below, CRRM shall submit certified semi-annual progress reports to US EPA and the Kansas Department of Health and Environment (KDHE).

Although only this compliance plan is incorporated into the air operating permit, it should be noted that the Consent Decree settlement is independently enforceable by the parties to the consent decree. As such, the Consent Decree document stands as a separate document in addition to the air operating permit.

**Consent Decree Applicable Requirements**

<b>Emission Unit</b>	<b>Requirement/Limit</b>	<b>Schedule</b>	<b>Consent Decree Reference</b>
FCCU – NOx	If applicable, short term and 365-day emission limits	Following NOx demonstration program	Consent Decree paragraphs 19-21.
FCCU – NOx	Emission limit of 20 ppmvd annual 40 ppmvd 7-day.	December 31, 2010.	Consent Decree paragraph 23
FCCU – SO2	If applicable, emission limit upon completion of interim SO2 catalyst program	Following SO2 catalyst program or upon CRRM's election of 25 ppmvd annual/50 ppmvd 7-day limits.	Consent Decree paragraphs 39-41 and paragraphs 25-26.
FCCU – SO2	Emission limit of 25 ppmvd annual and 50 ppmvd 7-day	December 31, 2010	Consent Decree paragraph 42
FCCU – PM	Emission limit of 0.5 lbs. PM per 1,000 lbs. Coke burned on a 3-hr. average basis.	December 31, 2010	Consent Decree paragraph 44.
Benzene Waste NESHAP	If applicable, emission limits upon completion of the Benzene Waste NESHAP Program.	Following completion of the Benzene Waste NESHAP Program	Consent Decree paragraph 51.
No. 2 Crude Unit Heater and No. 3 Vacuum Unit Heater - NOx	Emission limit of 0.025 lb/mmBIU	January 1, 2007.	Consent Decree paragraph 54.
Pressure Relief Valves	NSPS GGG limits	By earlier of next refinery turnaround or December 31, 2006.	Consent Decree paragraph 59.

<sup>1</sup> Clean Air Act Consent Decree, Civil Number 04-CV-1064-MLB.

Coal-fired Steam Boiler	CRRM will achieve a 53 tpy reduction in actual NOx emissions at the refinery.	NOx – January 1, 2007	Consent Decree paragraph 64.
-------------------------	---	-----------------------	------------------------------



Source ID No.: 1250003

Source Name: Coffeyville Resources Refining and  
Marketing, LLC

The period of time for which compliance is certified began at 12:01 a.m. on \_\_\_\_\_  
\_\_\_\_\_ and ended at 11:59 p.m. on \_\_\_\_\_, \_\_\_\_\_.

Certifications of compliance are required to be submitted at least annually. The period of time covered by each certification document can not exceed one year and there can be no period of time during the term of the permit for which compliance is not certified.

The terms or conditions of the permit that is the basis for this certification are those specified in the Class I Operating Permit issued by the Secretary of Health and Environment on \_\_\_\_\_  
\_\_\_\_\_.

**Compliance status of each term or condition of the permit during the certification period:**

1. ☐ In continuous compliance with all applicable requirements during the entire certification period.
2. ☐ Not in continuous compliance with all applicable requirements during the entire certification period.

***If not in continuous compliance with all applicable requirements during the entire certification period, mark the applicable description below.***

- ☐ One or more instances of non-compliance with any applicable requirement during the certification period.
- ☐ Continuous non-compliance with any applicable requirement during the certification period.

***Provide a summary of the nature, duration, and frequency of the non-compliance that occurred, including the applicable requirement(s) and emission unit(s).***

**Compliance status of each term or condition of the permit at the time the certification is signed:**

1. ☐ In compliance with all applicable requirements at the time of certification.
2. ☐ Not in compliance with all applicable requirements at the time of certification.

***Provide a description of the nature, duration, and frequency of the non-compliance that occurred, including the applicable requirement(s) and emission unit(s).***

**Methods used to determine compliance during the certification period and at the time of signing the certification:**

1. \_\_\_\_\_ In accordance with compliance demonstration methods specified in the Class I Operating Permit
2. \_\_\_\_\_ Other - In accordance with attachments

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on information and belief formed after reasonable inquiry, including the person or persons who manage the system, or those persons directly responsible for gathering the information, the status information in this document is true, accurate, and complete.

Name of Responsible Official (print or type):

Title: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_ / \_\_\_\_\_ / \_\_\_\_\_

"Responsible official" means one of the following (From K A R 28-19-200 General provisions; definitions):

- (1) For a corporation, a president, secretary, treasurer or vice-president in charge of a principal business function, or any other person who performs similar policy or decision-making functions for the corporation, or a duly authorized representative of such person if the representative is responsible for the overall operation of one or more manufacturing, production or operating facilities applying for or subject to permit or other relevant regulatory requirement and either:
  - (A) the facilities employ more than 250 persons or have gross annual sales or expenditures exceeding \$25 million, second quarter, 1980 dollars; or
  - (B) the delegation of authority to such representative is approved in advance by the department;
- (2) for a partnership or sole proprietorship, a general partner or the proprietor, respectively;
- (3) for a municipality, or a state, federal or other public agency, a principal executive officer or ranking elected official. For purposes of this definition, a principal executive officer of a federal agency shall include the chief executive officer having responsibility for the overall operations of a principal geographic unit of the agency; or
- (4) for affected sources, the designated representative under title IV, acid deposition control, of the federal clean air act 42 USC 7401 et seq

Send certification with original signatures to:

Air Construction/Operating Permits & Compliance Section  
Bureau of Air and Radiation  
Kansas Department of Health and Environment  
1000 SW Jackson, Suite 310  
Topeka, KS 66612-1366

Send a copy of certification to:

Kansas Compliance Officer  
Air Permitting and Compliance Branch  
U.S. EPA, Region 7  
901 N 5<sup>th</sup> Street  
Kansas City, KS 66101

## Air Permitting Survey Form

Please return within 30 days to:

**Christy Thurman**

KDHE Bureau of Air and Radiation

1000 SW Jackson, Ste. 310 Topeka, KS 66612

Phone: (785) 296-1593 or Fax: (785) 296-7455

Facility (Optional):						
Source Id Number (Optional):						
Contact Person (Optional):						
1.	Thoroughness of the final permit.	<input type="checkbox"/> Poor	<input type="checkbox"/> Below Average	<input type="checkbox"/> Average	<input type="checkbox"/> Above Average	<input type="checkbox"/> Excellent
2.	Was your air permit application handled timely?	<input type="checkbox"/> Poor	<input type="checkbox"/> Below Average	<input type="checkbox"/> Average	<input type="checkbox"/> Above Average	<input type="checkbox"/> Excellent
3.	Permit writer discussed and explained conditions of final permit.	<input type="checkbox"/> Poor	<input type="checkbox"/> Below Average	<input type="checkbox"/> Average	<input type="checkbox"/> Above Average	<input type="checkbox"/> Excellent
4.	Knowledge level of permit writer.	<input type="checkbox"/> Poor	<input type="checkbox"/> Below Average	<input type="checkbox"/> Average	<input type="checkbox"/> Above Average	<input type="checkbox"/> Excellent
5.	Permit writer provided responses to questions asked timely.	<input type="checkbox"/> Poor	<input type="checkbox"/> Below Average	<input type="checkbox"/> Average	<input type="checkbox"/> Above Average	<input type="checkbox"/> Excellent
6.	If you were not satisfied with your permit, what suggestions do you have that would serve you better in the future?					
7.	Did permit writer conduct a site visit?	<input type="checkbox"/> Yes	<input type="checkbox"/> No			
8.	Comments (use additional pages if necessary)					